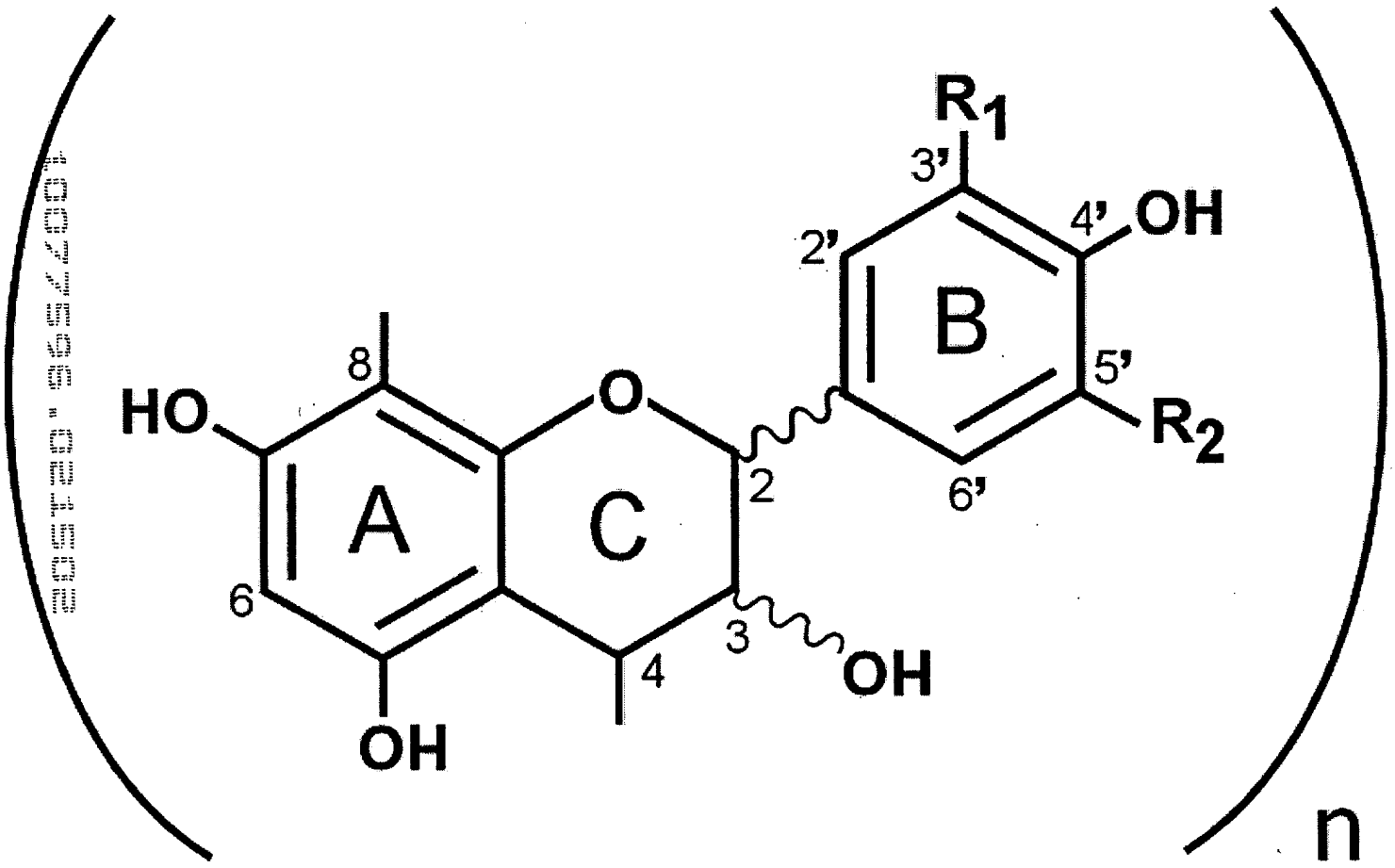


FIGURE 1

File : ARNICA32.D02 Arnica Montana plaine
Run : 04 Type : Sample
Collection : 09:35:38 Oct 27 1991 Method : STARTUP3 [07:41:18 Oct 27 1991]

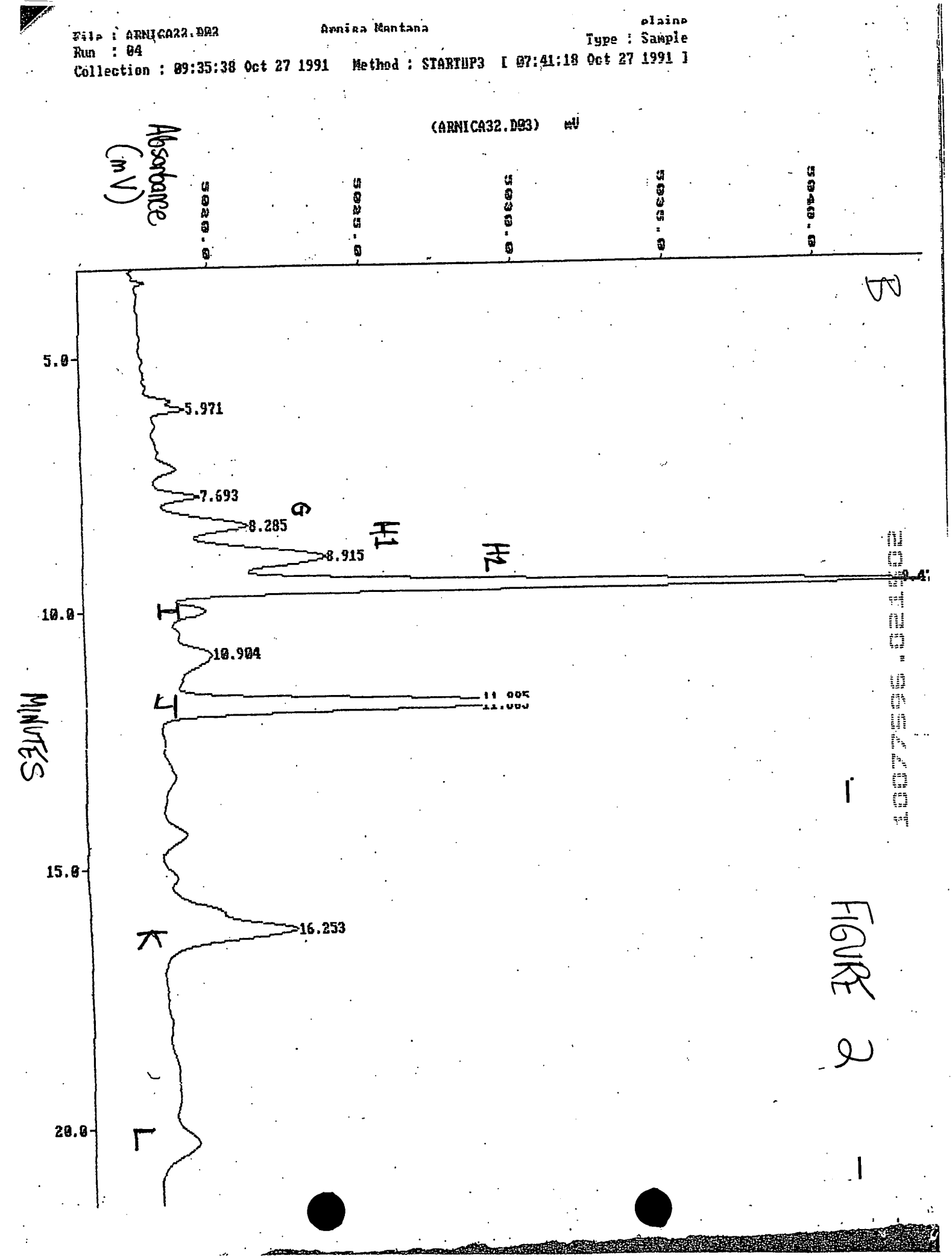


FIGURE 2

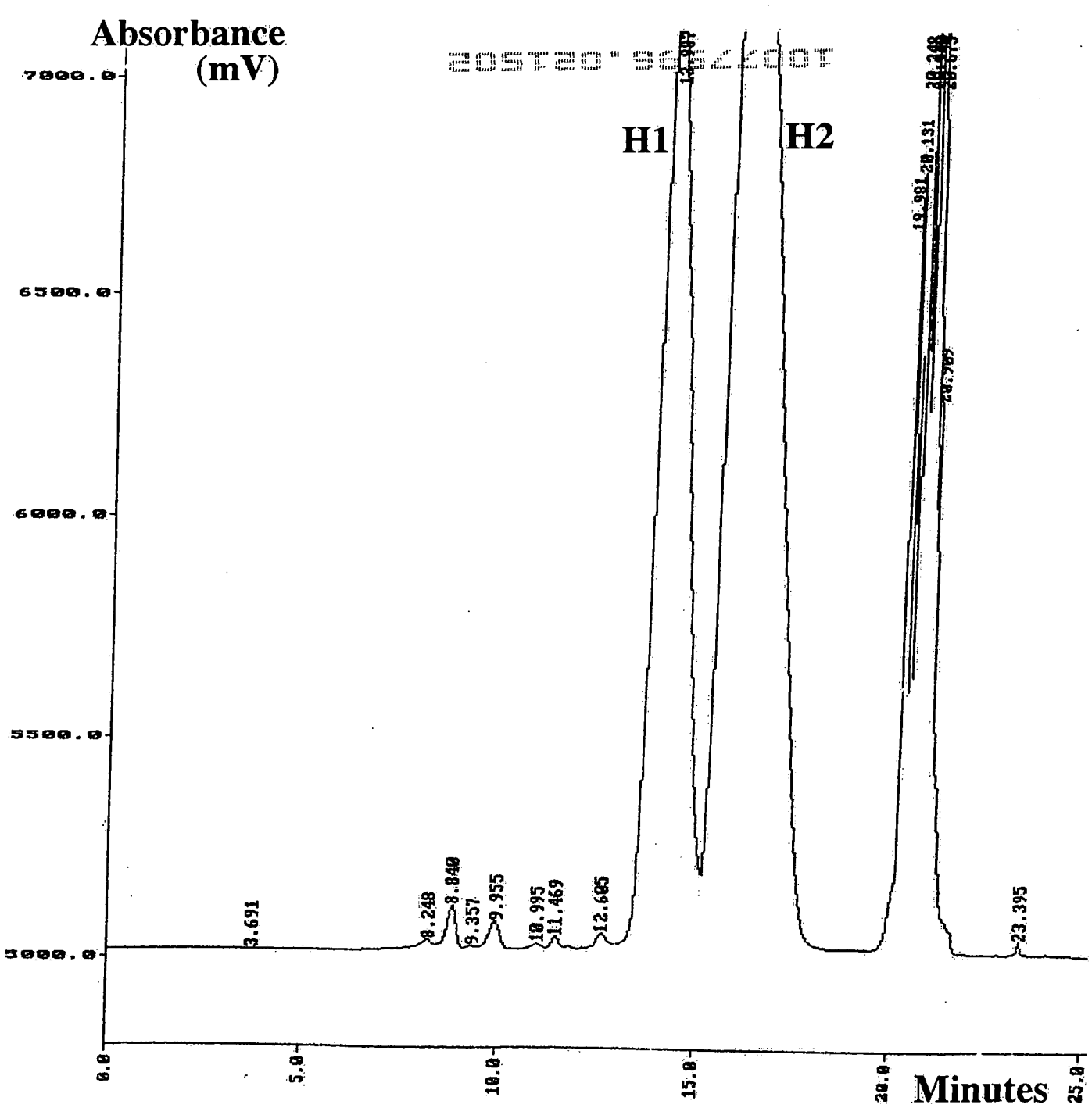

Absorbance
(mV)
7000.0
6500.0
6000.0
5500.0
5000.0
H1
H2
3.691
8.248
8.840
9.357
9.955
10.995
11.469
12.605
19.981
20.131
23.395
0.0
5.0
10.0
15.0
20.0
25.0
Minutes

FIGURE 3

Run : 02 Type : Sample
Collection : 12:11:51 Nov 29 1991 Method : STARTUP3 [11:25:27 Nov 29 1991]

(PROTEC26.D03) mV

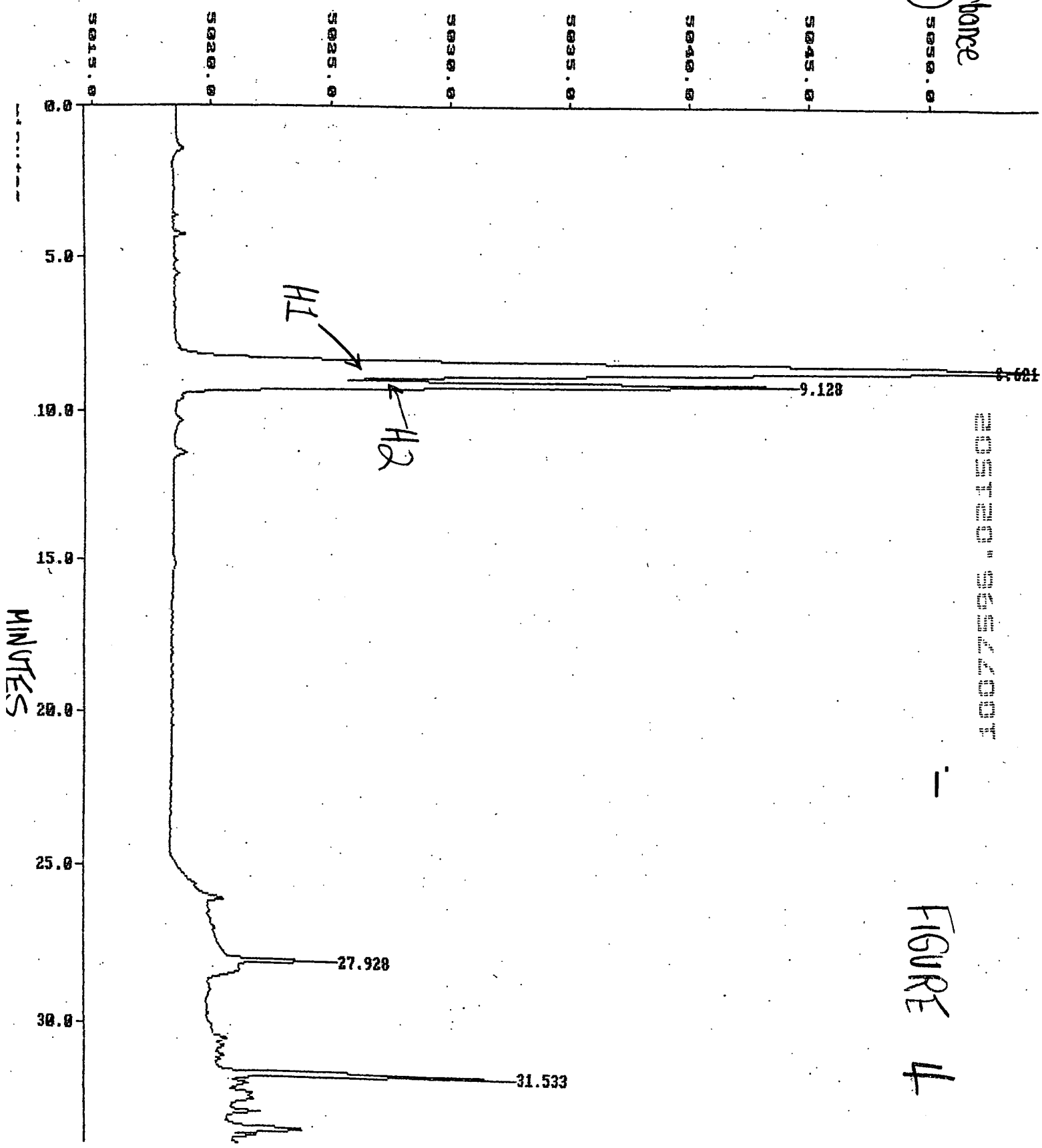


FIGURE 4

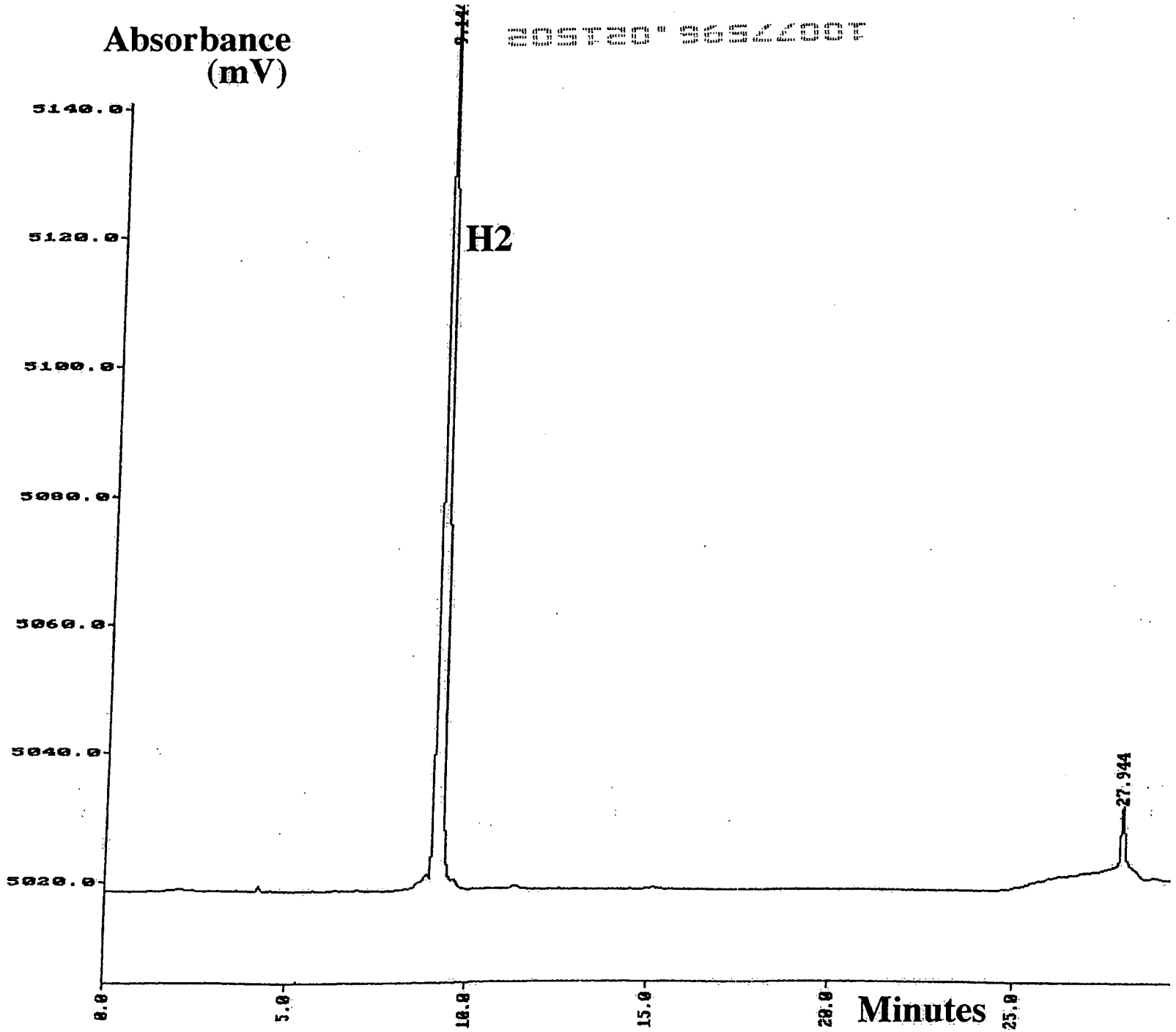

Absorbance
(mV)
5140.0
5120.0
5100.0
5080.0
5060.0
5040.0
5020.0
H2
27.944
0.0
5.0
10.0
15.0
20.0
25.0
Minutes

FIGURE 5

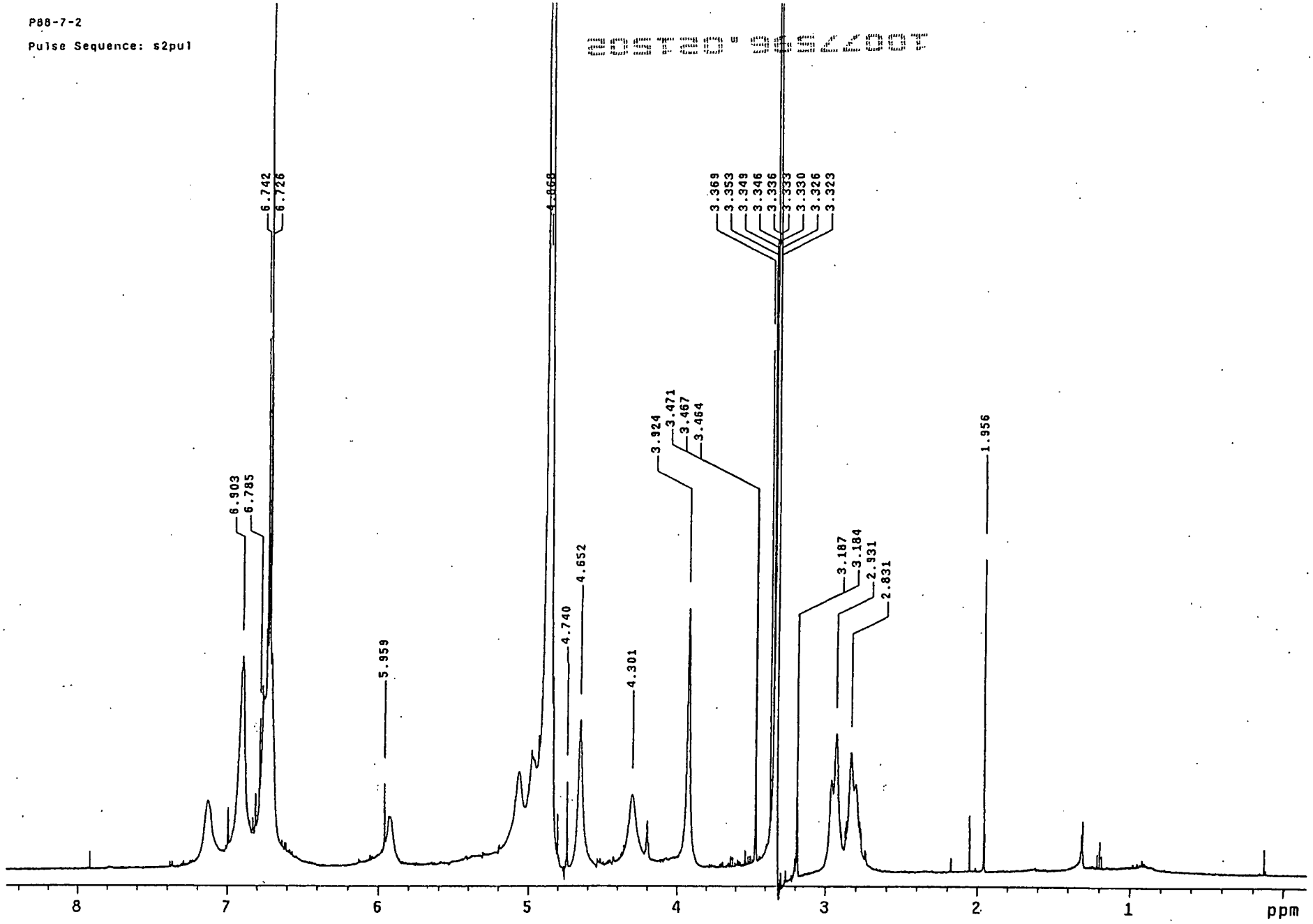

P88-7-2
Pulse Sequence: s2pul
6.903
6.785
6.742
6.726
5.959
4.868
4.740
4.652
4.301
3.924
3.471
3.467
3.464
3.369
3.353
3.349
3.346
3.336
3.333
3.330
3.326
3.323
3.187
3.184
2.931
2.831
1.956
8
7
6
5
4
3
2
1
ppm

FIGURE 6

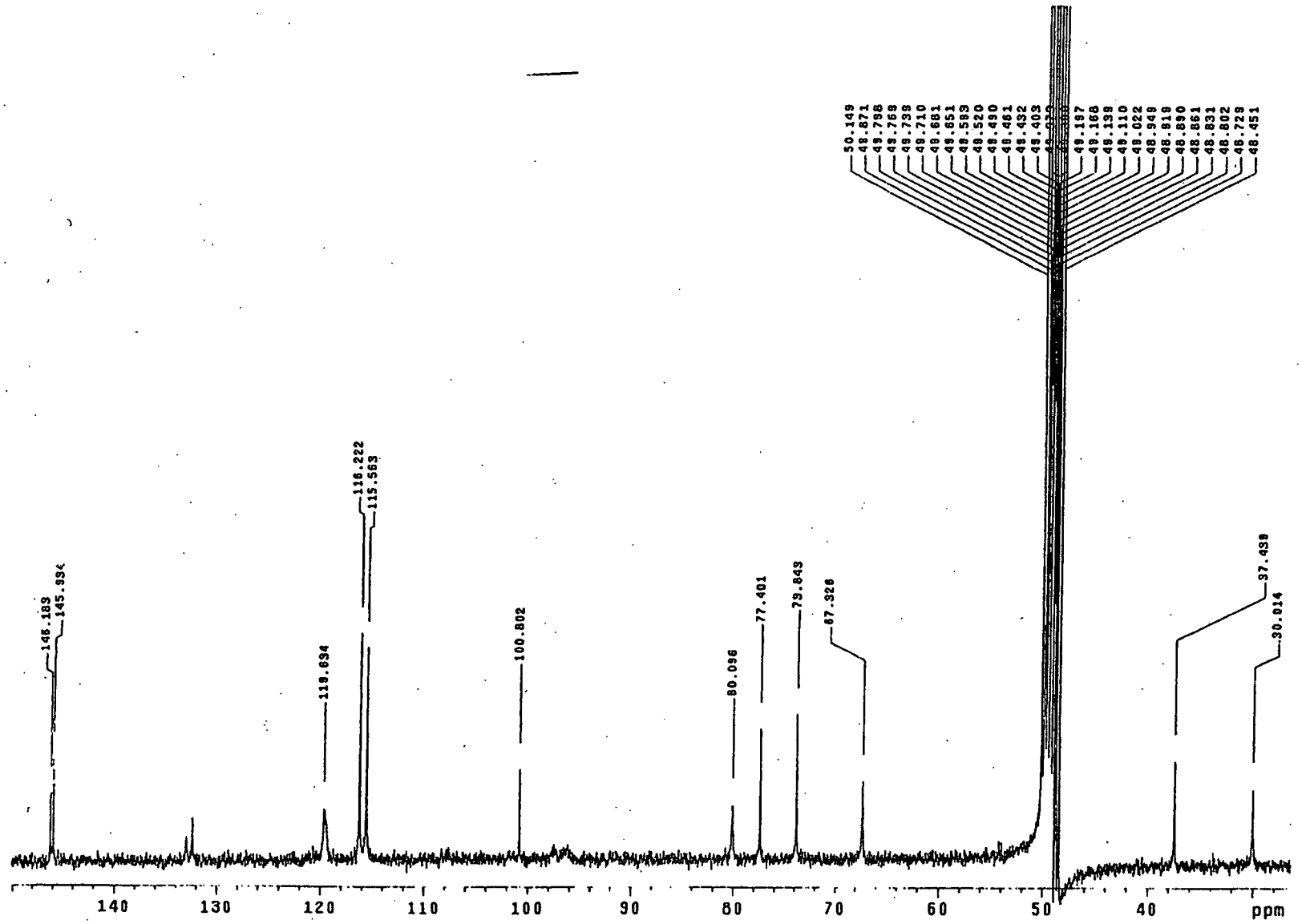

50.149
49.871
49.798
49.768
49.738
49.710
49.681
49.651
49.583
49.520
49.490
49.461
49.432
49.403
49.197
49.168
49.139
49.110
49.022
48.948
48.818
48.890
48.861
48.831
48.802
48.729
48.451
146.189
145.934
119.634
116.222
115.563
100.802
80.096
77.401
79.843
67.326
37.438
30.014
140
130
120
110
100
90
80
70
60
50
40
ppm

FIGURE 7

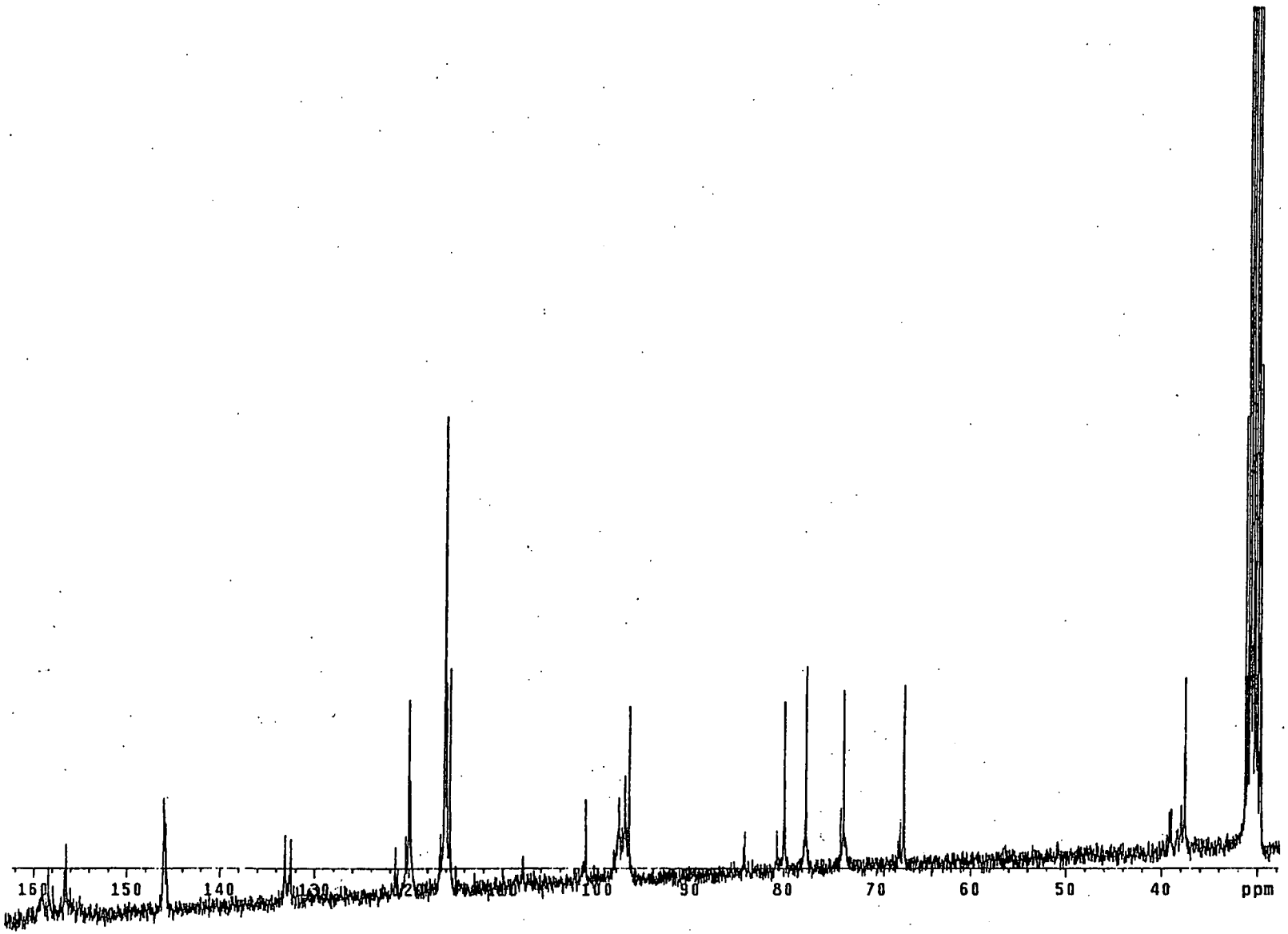


FIGURE 8

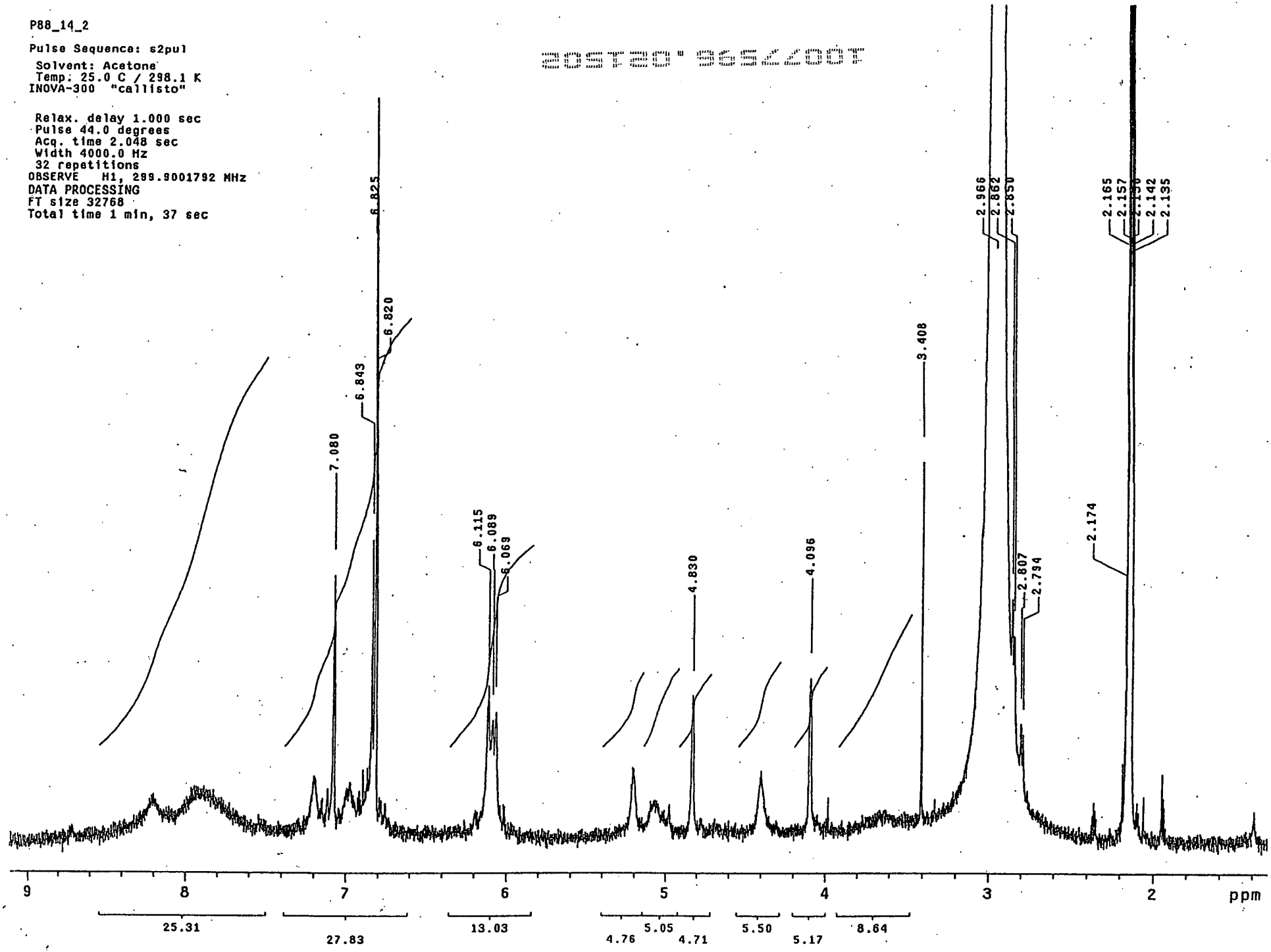

P88_14_2
Pulse Sequence: s2pul
Solvent: Acetone
Temp: 25.0 C / 298.1 K
INOVA-300 "callisto"
Relax. delay 1.000 sec
Pulse 44.0 degrees
Acq. time 2.048 sec
Width 4000.0 Hz
32 repetitions
OBSERVE H1, 299.9001792 MHz
DATA PROCESSING
FT size 32768
Total time 1 min, 37 sec
7.080
6.843
6.825
6.820
6.115
6.089
6.069
4.830
4.096
3.408
2.966
2.862
2.850
2.807
2.794
2.174
2.165
2.157
2.142
2.135
9
8
7
6
5
4
3
2
ppm
25.31
27.83
13.03
4.76
5.05
4.71
5.50
5.17
8.64

FIGURE 9

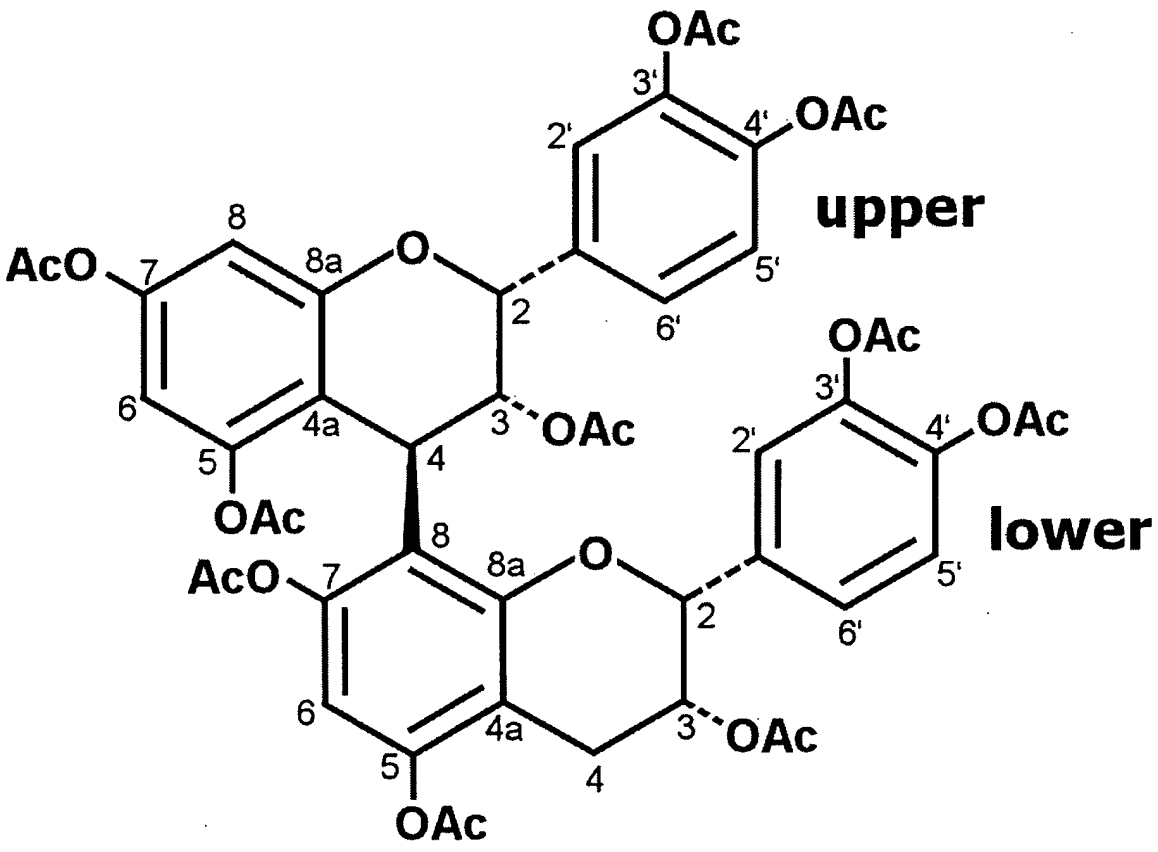
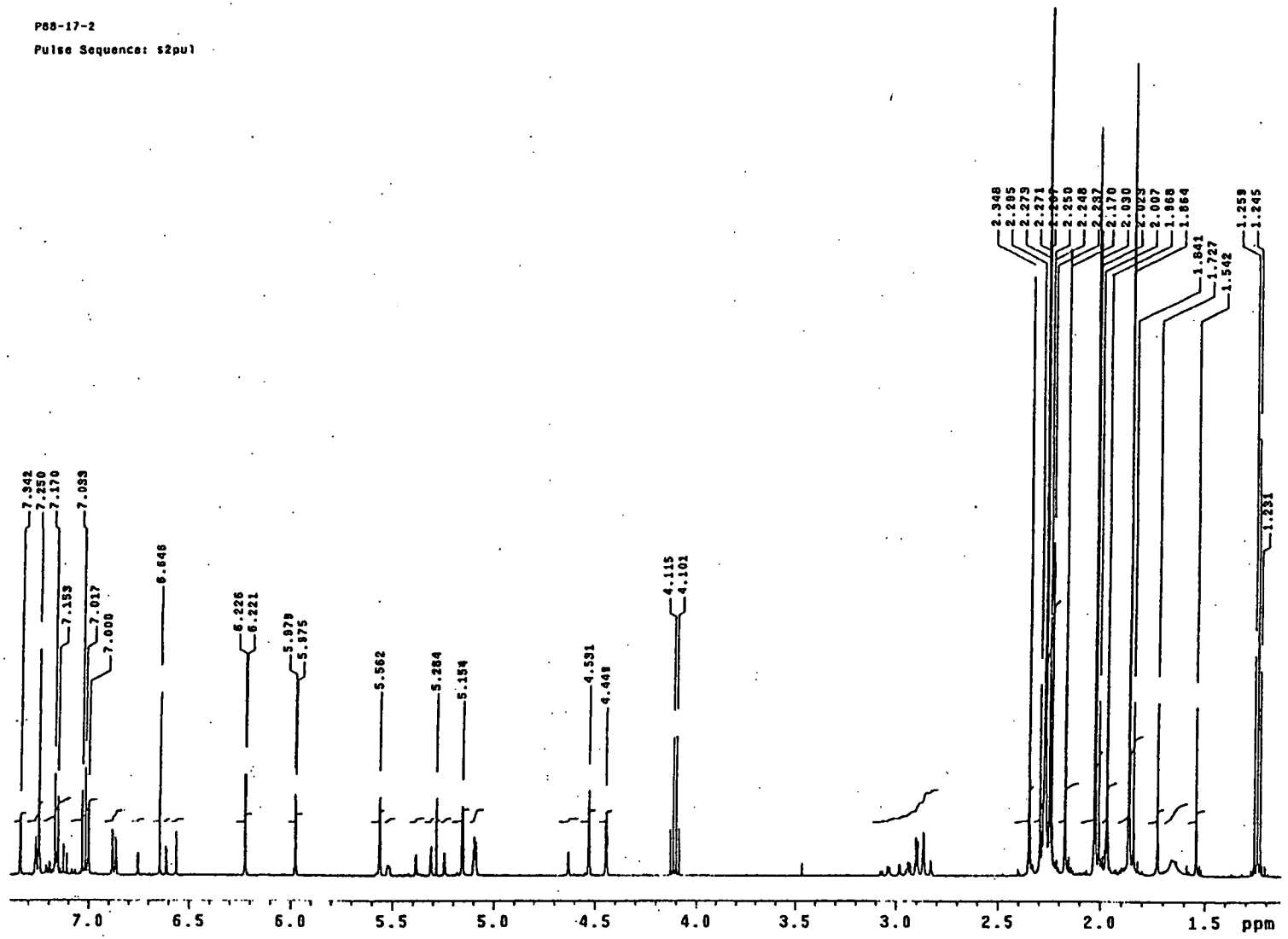
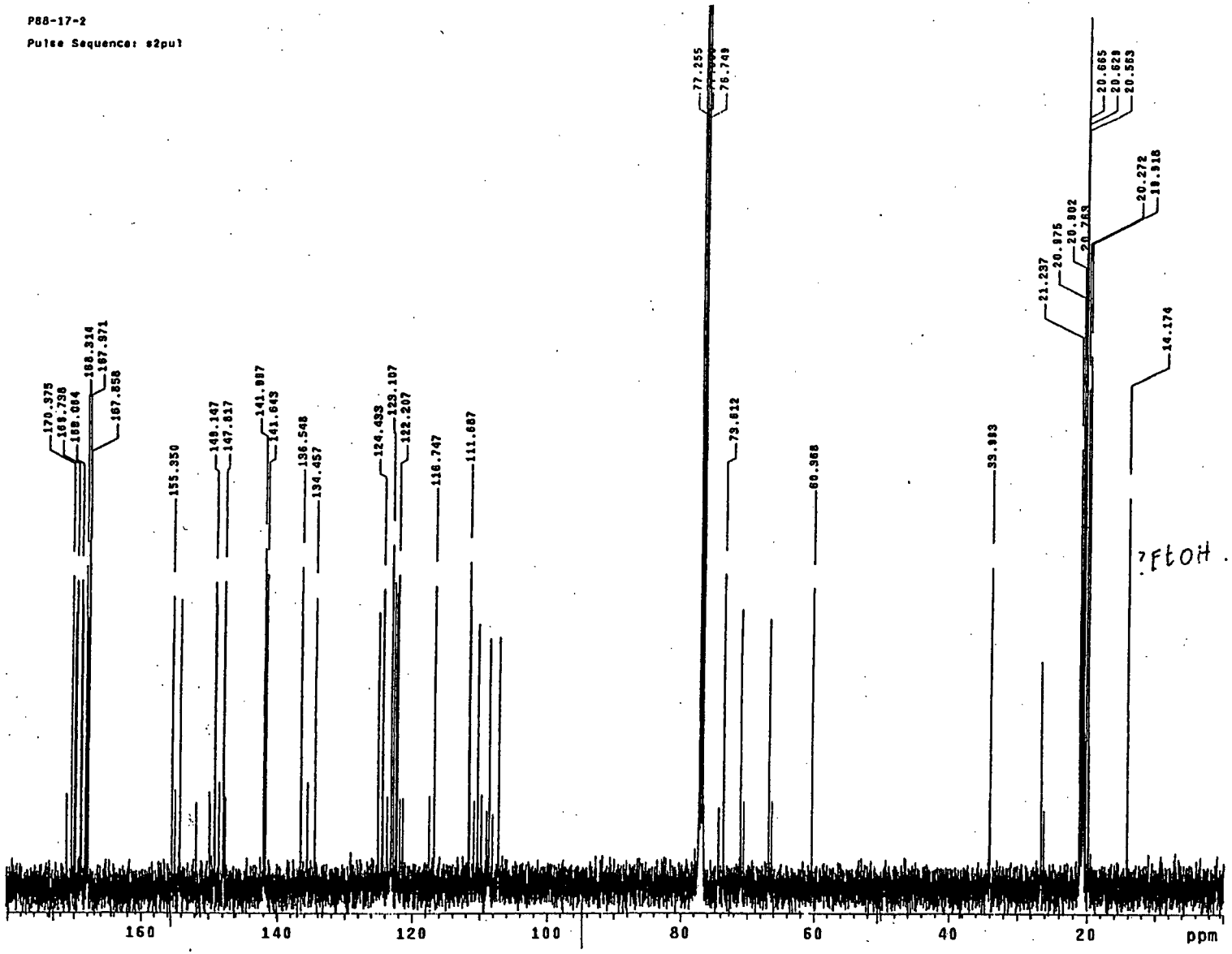

OAc
3'
4'
OAc
2'
upper
8
AcO
7
8a
O
2
5'
6'
6
4a
3
OAc
4
5
OAc
OAc
3'
4'
OAc
2'
lower
8
AcO
7
8a
O
2
5'
6'
6
4a
3
OAc
5
4
OAc

FIGURE 10



NMR 8. ^{1}H NMR spectrum of H2 peracetate (3) in $CDCl_3$.

FIGURE 11



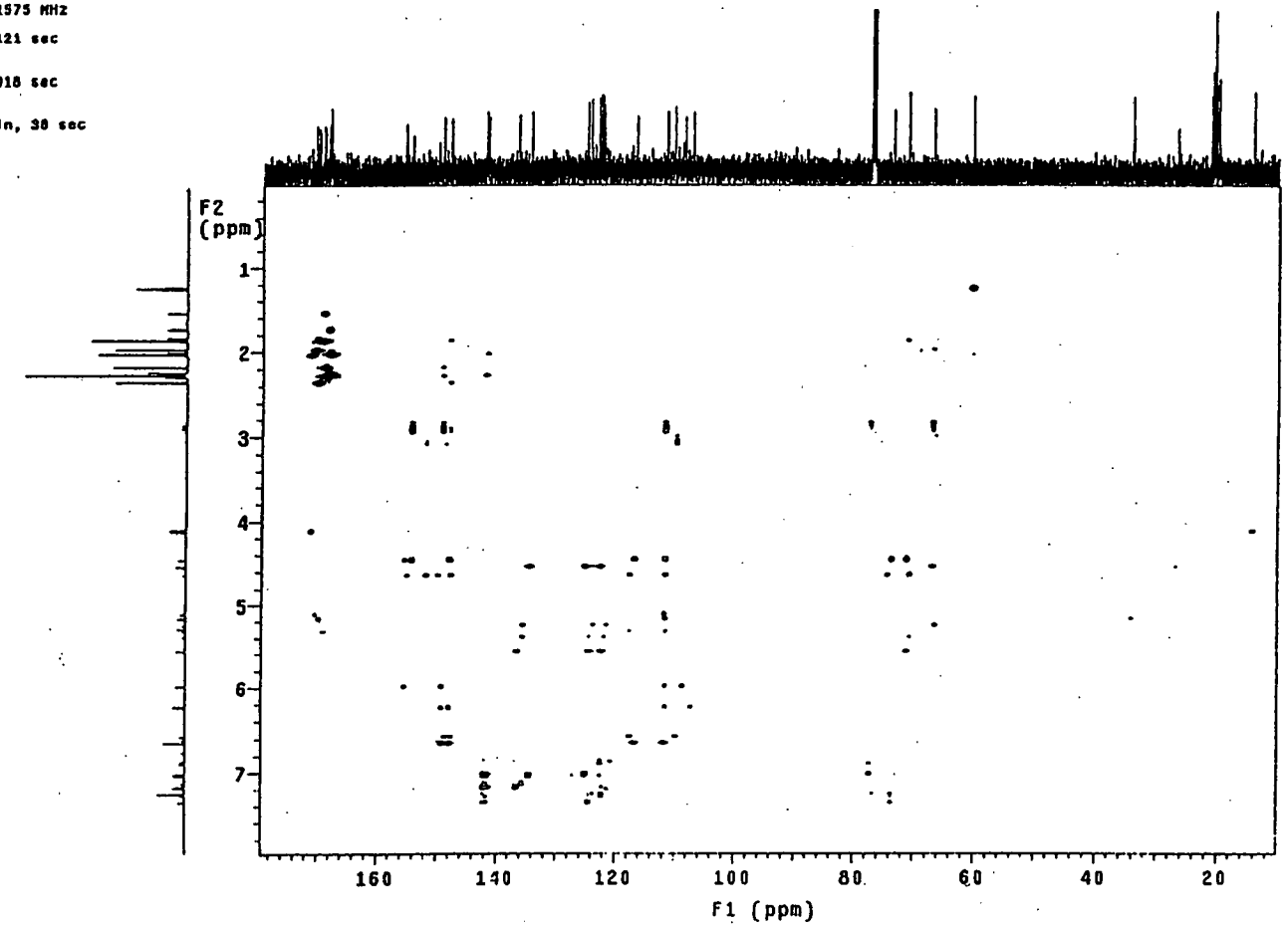
NMR 11 ^{13}C NMR spectrum of H2 peracetate (3) in $CDCl_3$.

FIGURE 12

P88-17-2

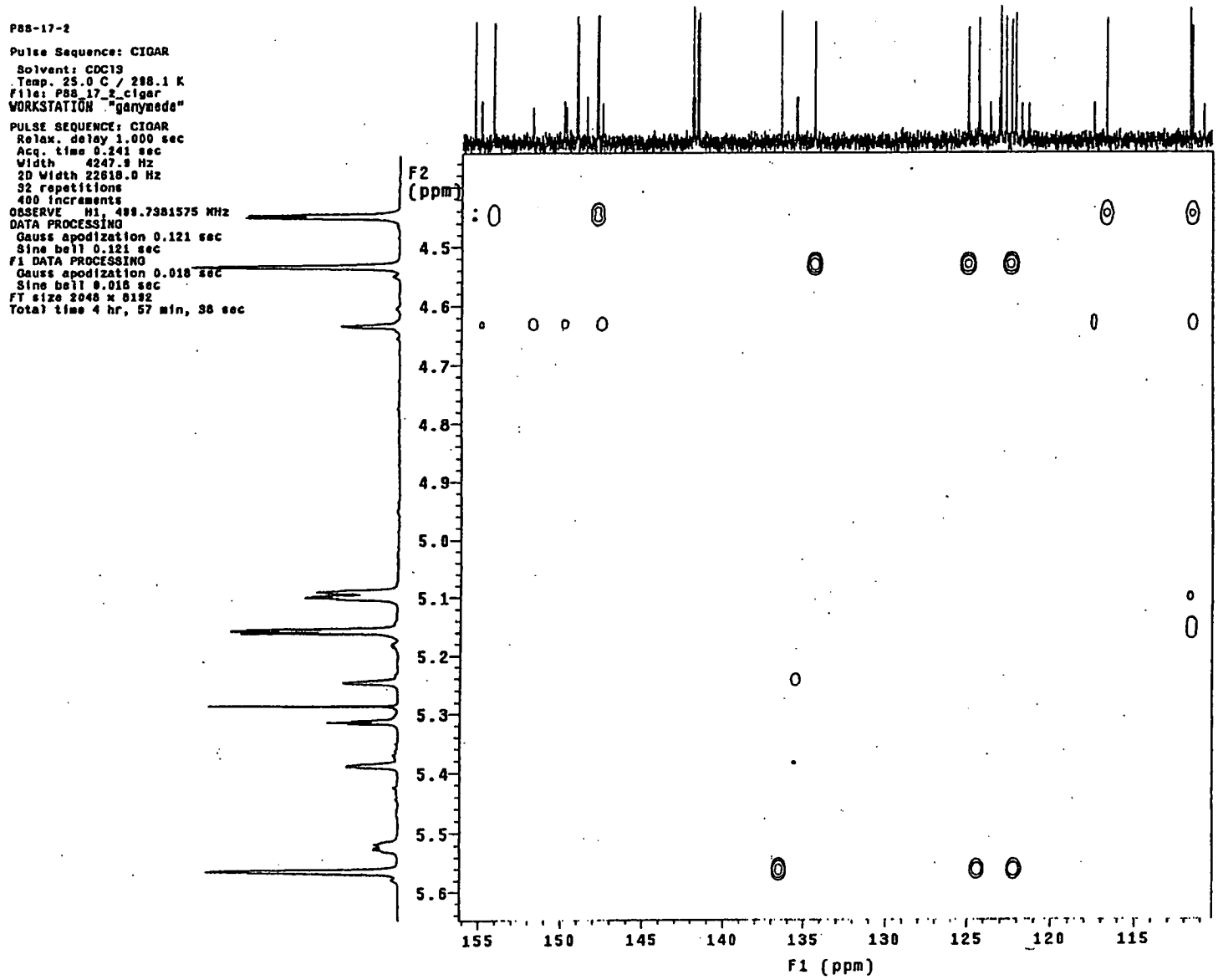
Pulse Sequence: CIGAR
Solvent: CDCl3
Temp. 25.0 C / 298.1 K
User: 1-14-87
INOVA-500 "europa"

Relax. delay 1.000 sec
Acq. time 0.241 sec
Width 4247.9 Hz
2D Width 22618.0 Hz
32 repetitions
400 increments
OBSERVE H1, 499.7381575 MHz
DATA PROCESSING
Gauss apodization 0.121 sec
Sine bell 0.121 sec
F1 DATA PROCESSING
Gauss apodization 0.018 sec
Sine bell 0.018 sec
FT size 2048 x 8192
Total time 4 hr, 57 min, 38 sec



NMR 12 CIGAR $^{1}H - {}^{13}C$ correlation spectrum of H2 peracetate (3).

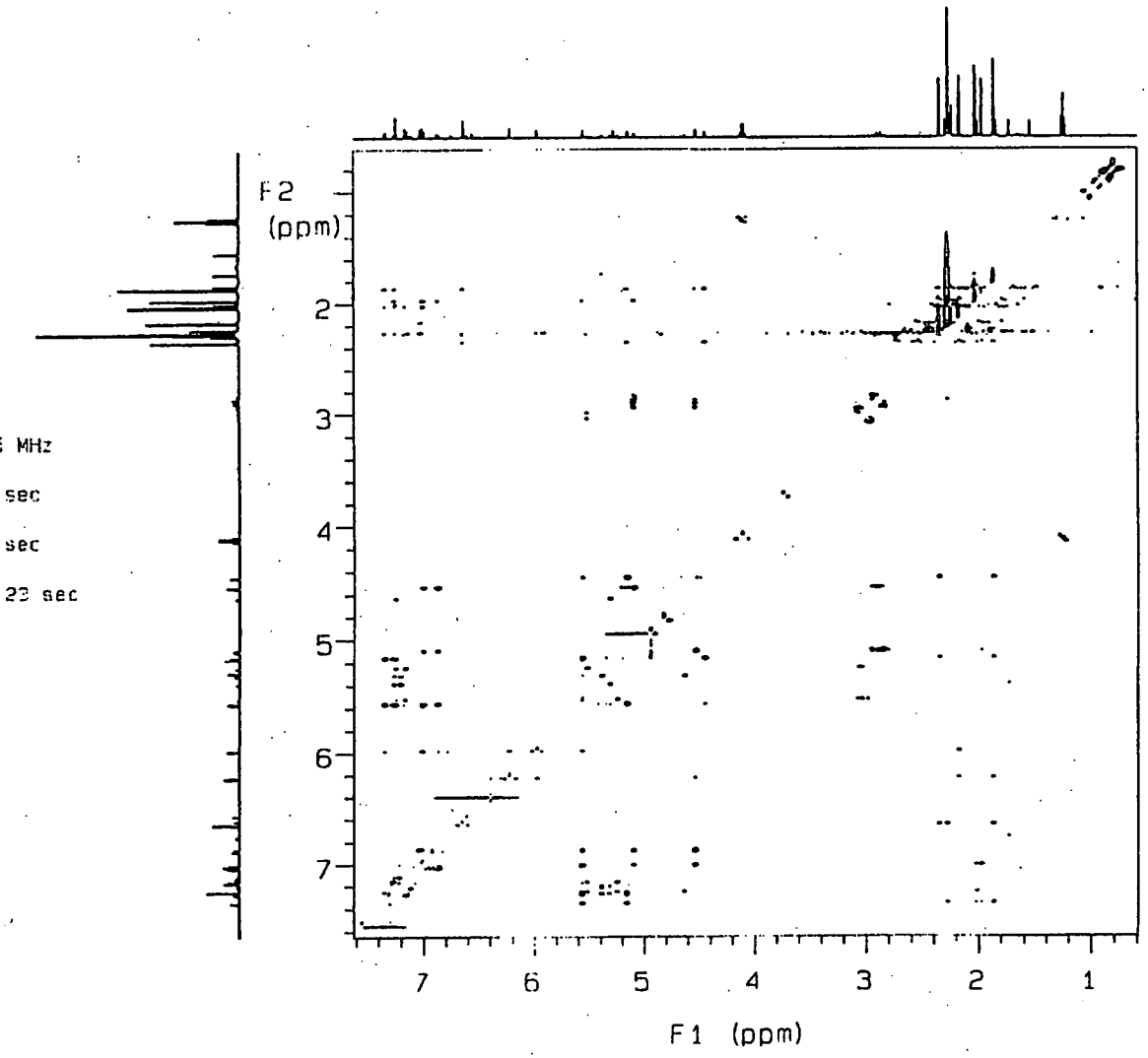
FIGURE 13



NMR 13 CIGAR $^{1}H - ^{13}C$ correlation spectrum of H2 peracetate (3).

FIGURE 14

NMR 14 NOESY Correlation spectrum of H2 peracetate (3).



OBSERVE H1, 499.7381575 MHz
DATA PROCESSING
Gauss apodization 0.121 sec
F1 DATA PROCESSING
Gauss apodization 0.047 sec
FT size 4096 x 4096
Total time 11 hr, 11 min, 23 sec

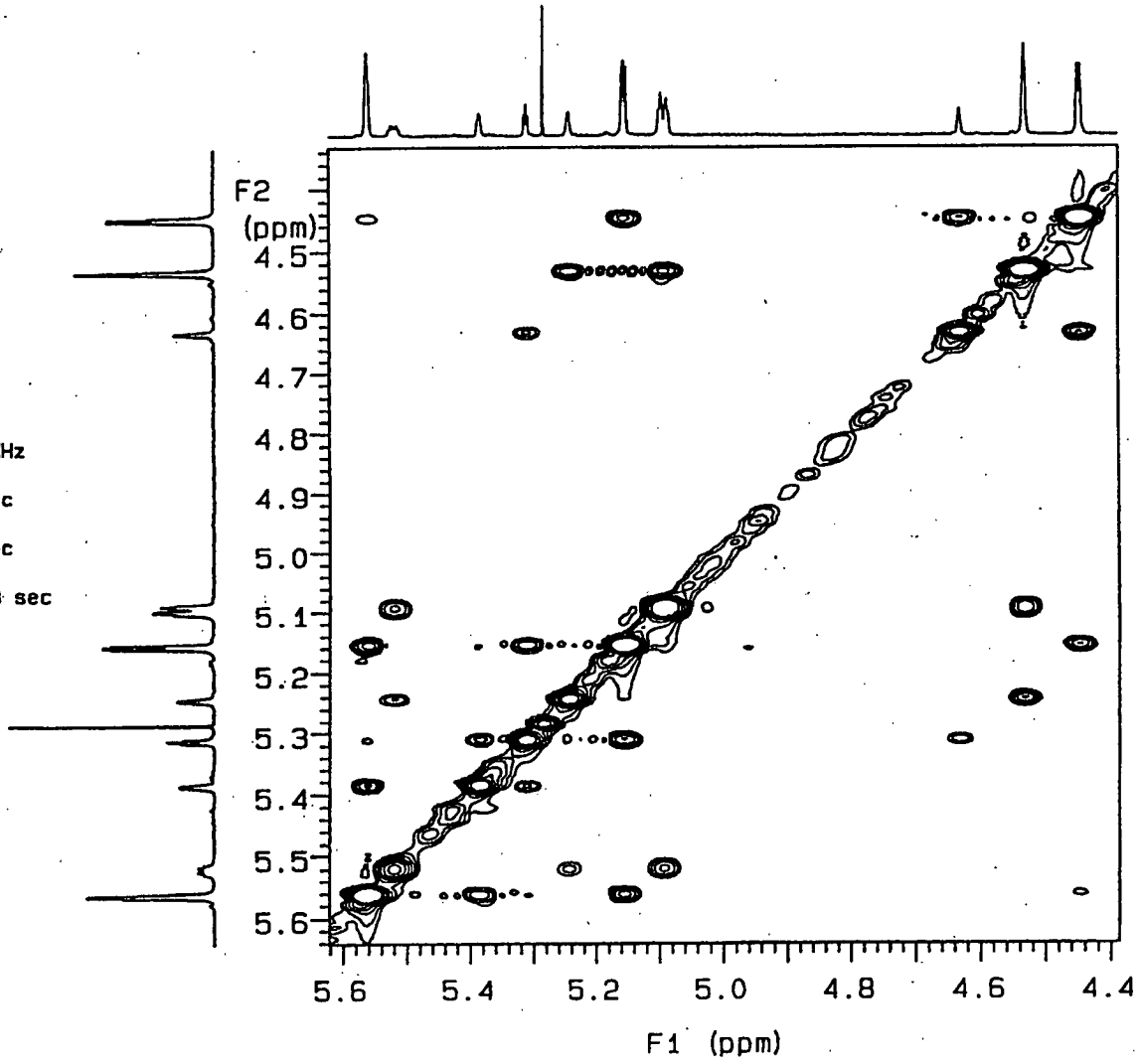
FIGURE 15

P88-17-2

Pulse Sequence: NOESY

Solvent: CDCl3
Temp. 25.0 C / 298.1 K
File: P88_17_2_noesy8
WORKSTATION "ganymede"

PULSE SEQUENCE: NOESY
Relax. delay 1.500 sec
Mixing 0.800 sec
Acq. time 0.241 sec
Width 4247.9 Hz
2D Width 4247.9 Hz
32 repetitions
2 x 200 increments
OBSERVE H1, 499.7381575 MHz
DATA PROCESSING
Gauss apodization 0.121 sec
F1 DATA PROCESSING
Gauss apodization 0.047 sec
FT size 4096 x 4096
Total time 9 hr, 11 min, 23 sec



NMR 15 NOESY Correlation spectrum of H2 peracetate (3).

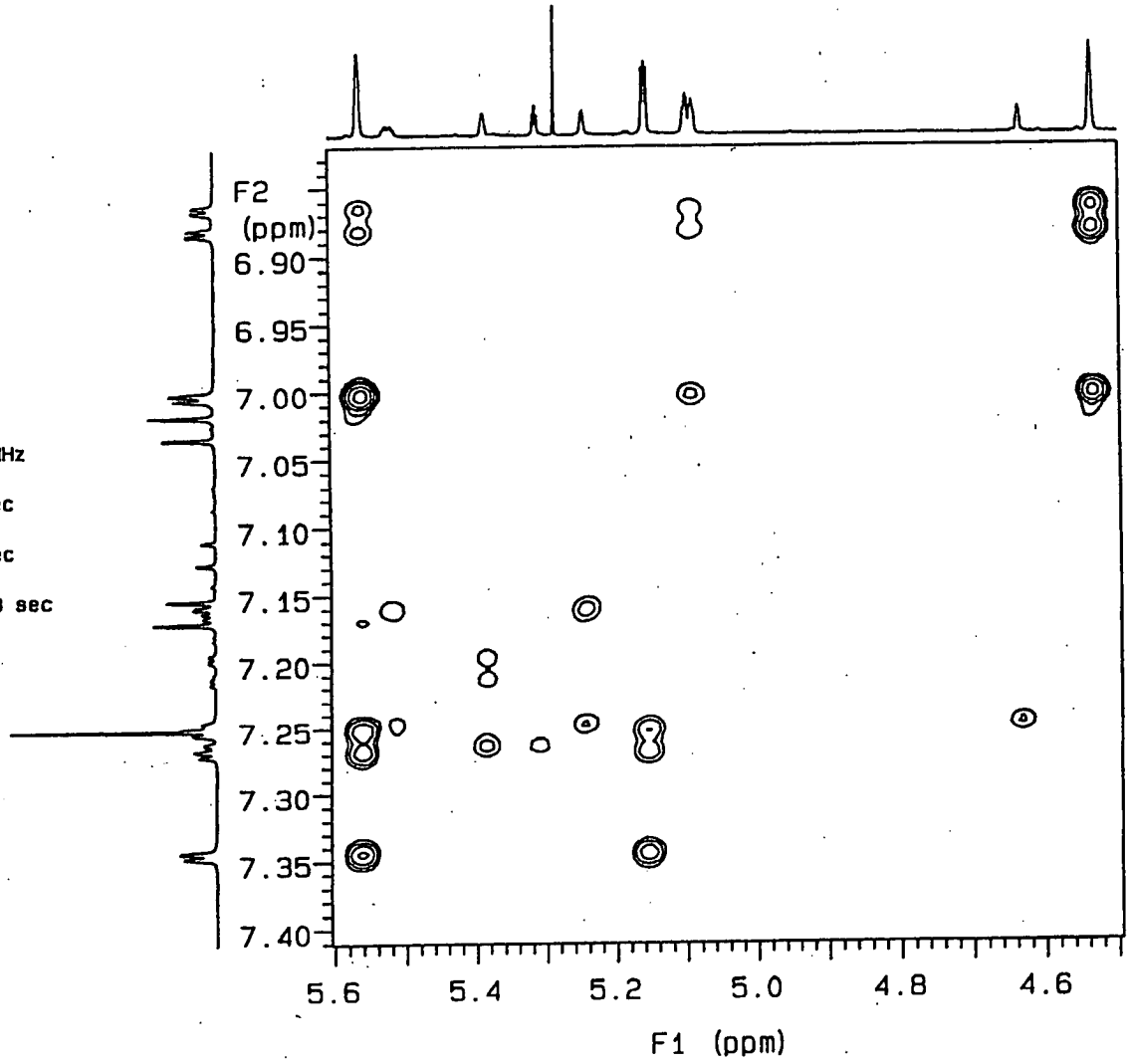
FIGURE 16

P88-17-2

Pulse Sequence: NOESY

Solvent: CDCl3
Temp. 25.0 C / 298.1 K
File: P88_17_2_noesy8
WORKSTATION "ganymede"

PULSE SEQUENCE: NOESY
Relax. delay 1.500 sec
Mixing 0.800 sec
Acq. time 0.241 sec
Width 4247.9 Hz
2D Width 4247.9 Hz
32 repetitions
2 x 200 increments
OBSERVE H1, 499.7381575 MHz
DATA PROCESSING
Gauss apodization 0.121 sec
F1 DATA PROCESSING
Gauss apodization 0.047 sec
FT size 4096 x 4096
Total time 9 hr, 11 min, 23 sec



NMR 16 NOESY Correlation spectrum of H2 peracetate (3).

FIGURE 17

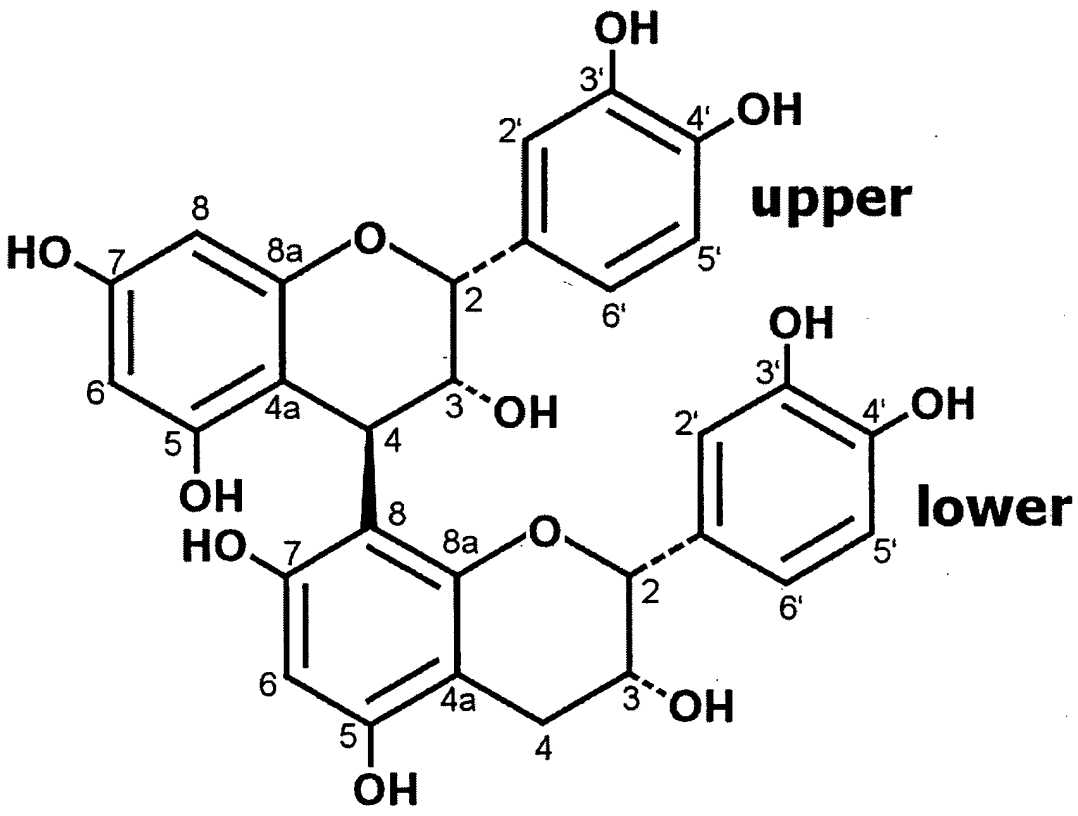

OH
3'
4'
OH
2'
upper
8
HO
7
8a
O
2
5'
6'
6
4a
3
OH
5
4
OH
OH
3'
4'
OH
2'
lower
8
HO
7
8a
O
2
5'
6'
6
4a
3
OH
5
4
OH

FIGURE 18

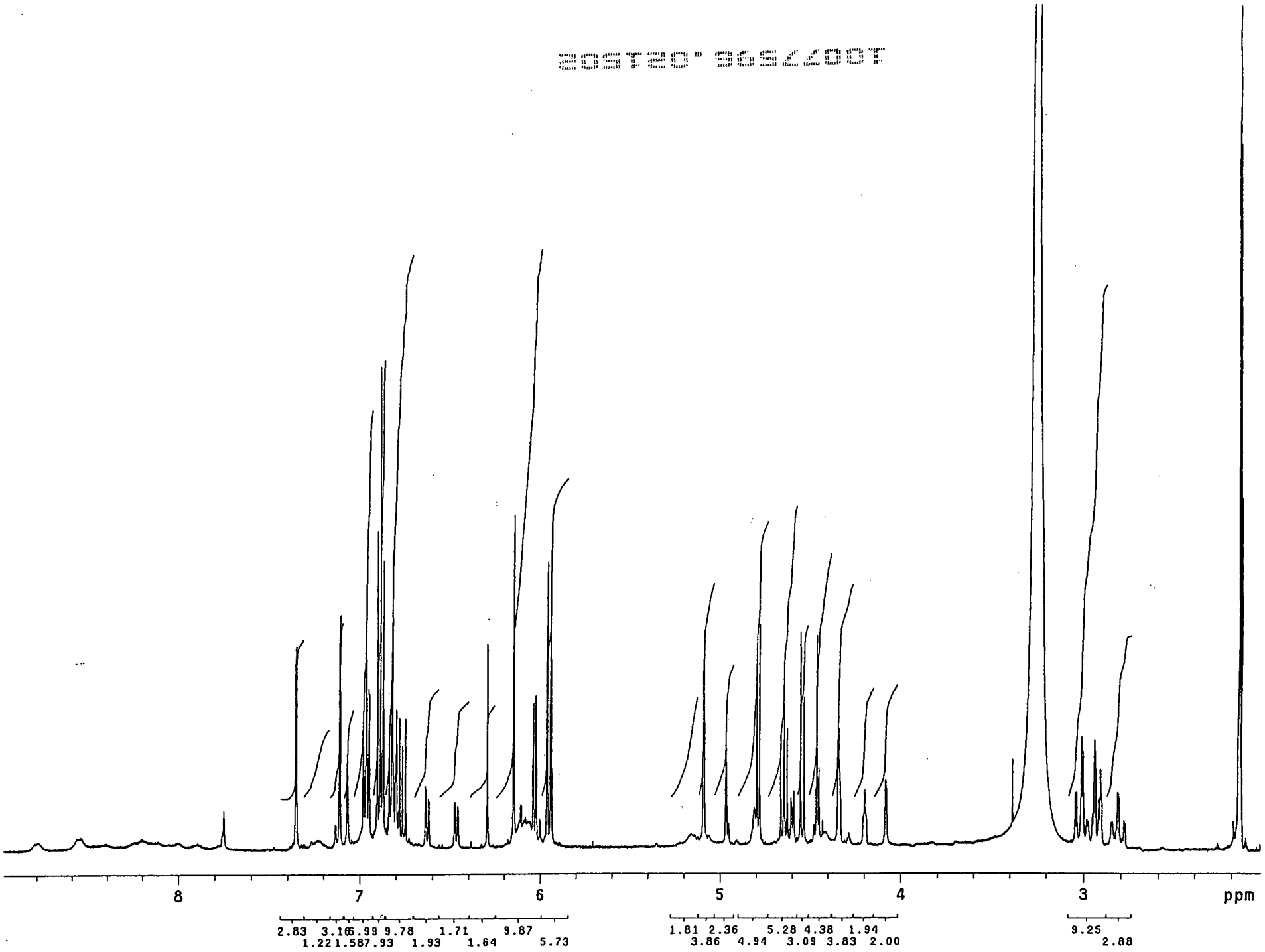

8
7
6
5
4
3
ppm
2.83 3.16 6.99 9.78 1.71 9.87
1.22 1.58 7.93 1.93 1.64 5.73
1.81 2.36 5.28 4.38 1.94
3.86 4.94 3.09 3.83 2.00
9.25
2.88

FIGURE 19

P88-23-1

Pulse Sequence: s2pul

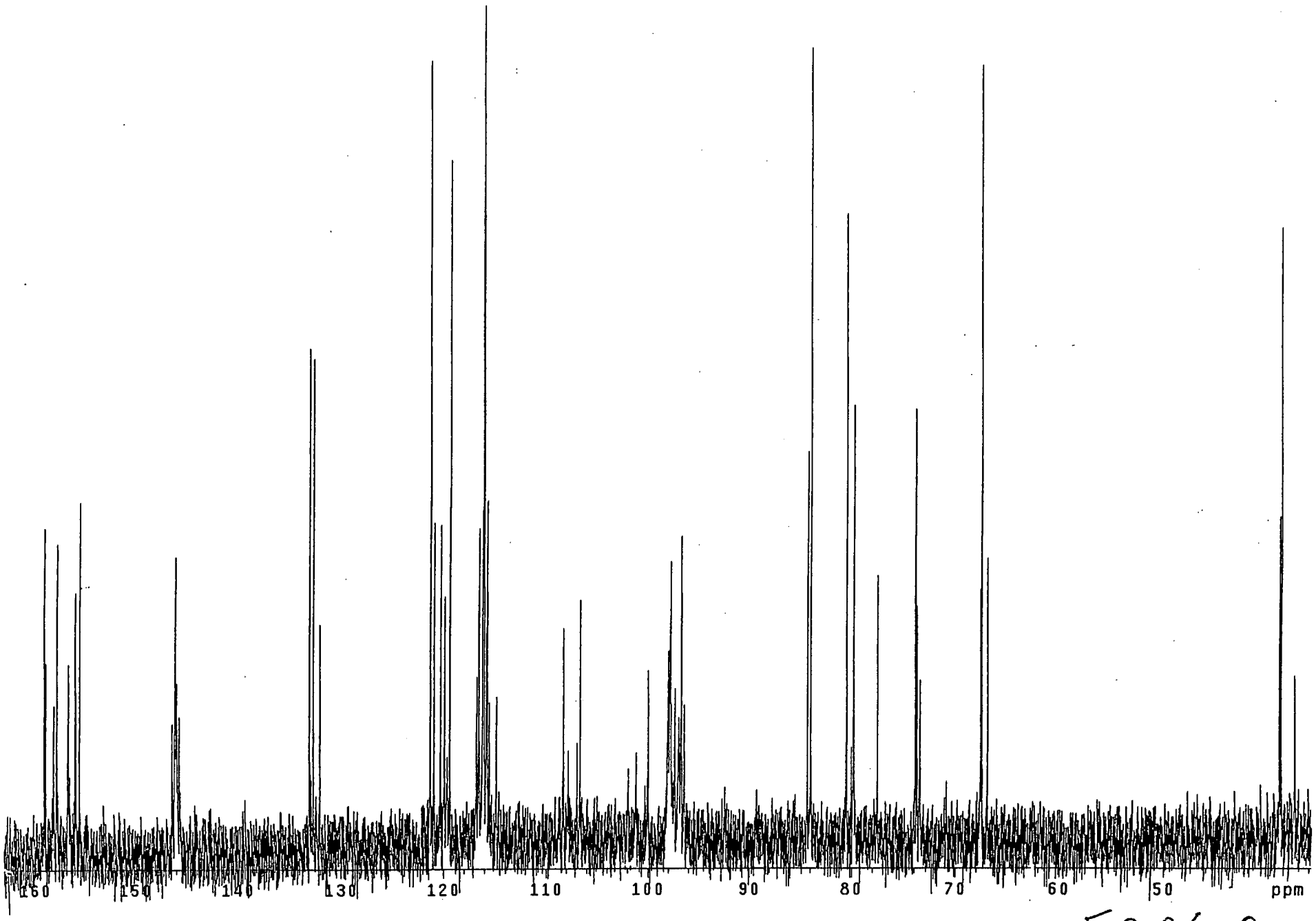


FIGURE 20

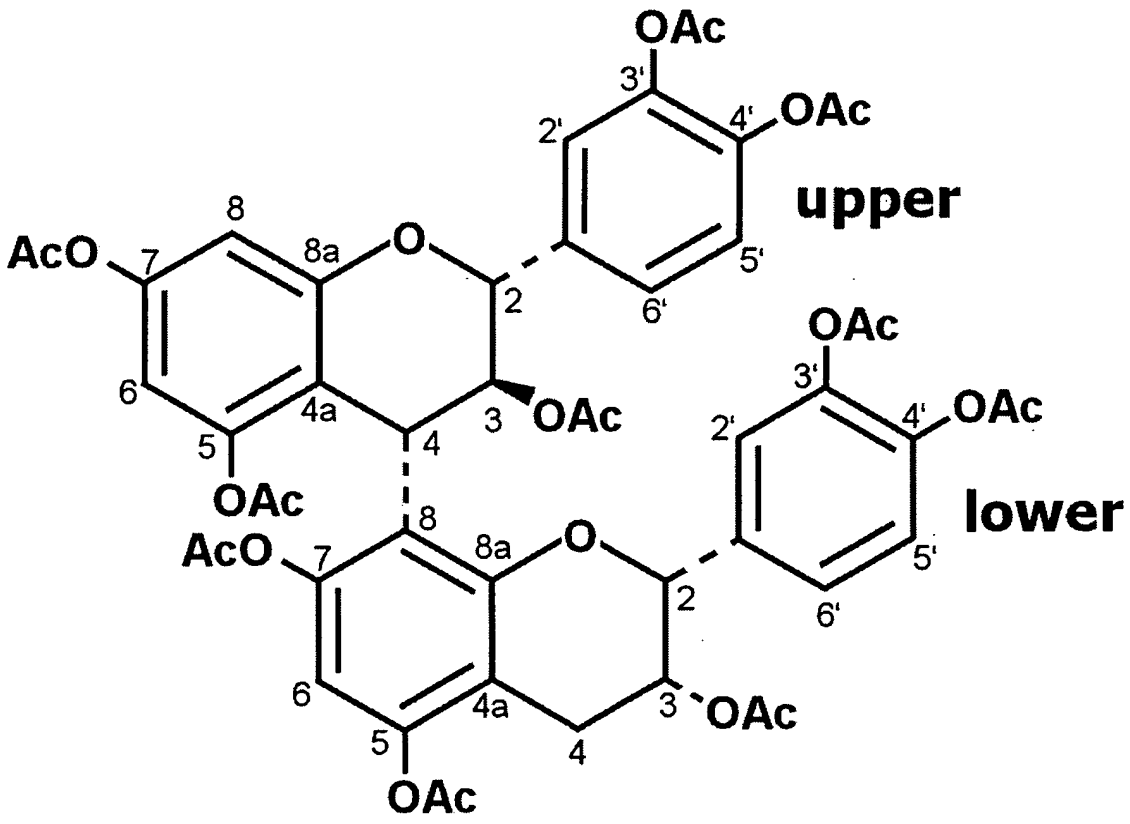

OAc
3'
4'
OAc
2'
upper
8
AcO
7
8a
O
2
5'
6'
6
4a
3
OAc
4
5
OAc
OAc
3'
4'
OAc
2'
lower
AcO
8
7
8a
O
2
5'
6'
6
4a
3
OAc
5
4
OAc

FIGURE 21

P88-17-3

Pulse Sequence: s2pul

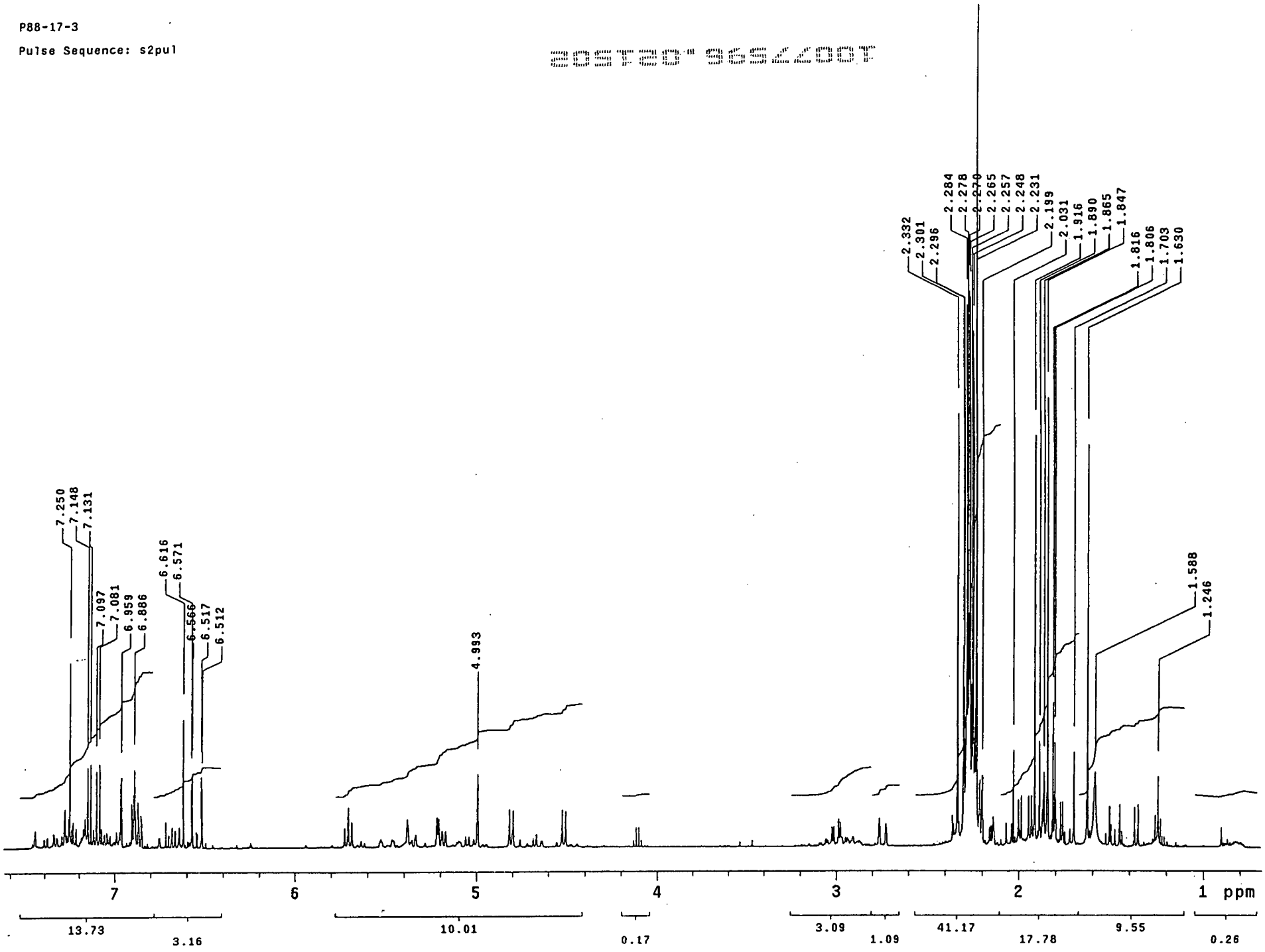


FIGURE 22

P88-17-3

Pulse Sequence: s2pul

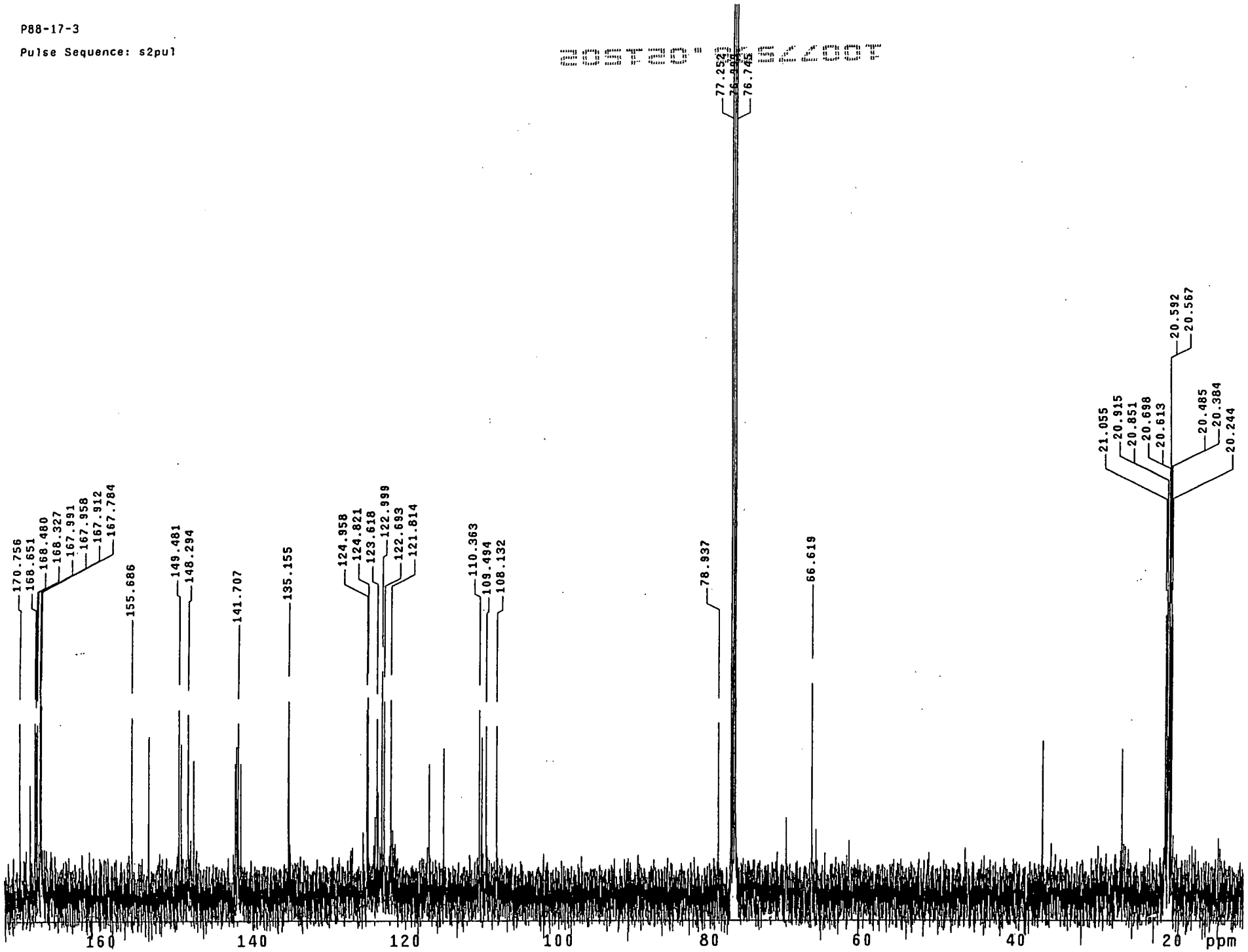


FIGURE 23

P88-17-3

Pulse Sequence: CIGAR
Solvent: CDCl3
Temp. 25.0 C / 298.1 K
User: 1-14-87
INOVA-500 "europa"

Relax. delay 1.000 sec
Acq. time 0.205 sec
Width 4997.5 Hz
2D Width 25133.5 Hz
64 repetitions
256 increments
OBSERVE H1, 499.7381559 MHz
DATA PROCESSING
Gauss apodization 0.102 sec
Sine bell 0.102 sec
F1 DATA PROCESSING
Gauss apodization 0.016 sec
Sine bell 0.007 sec
FT size 2048 x 4096
Total time 6 hr, 9 min, 51 sec

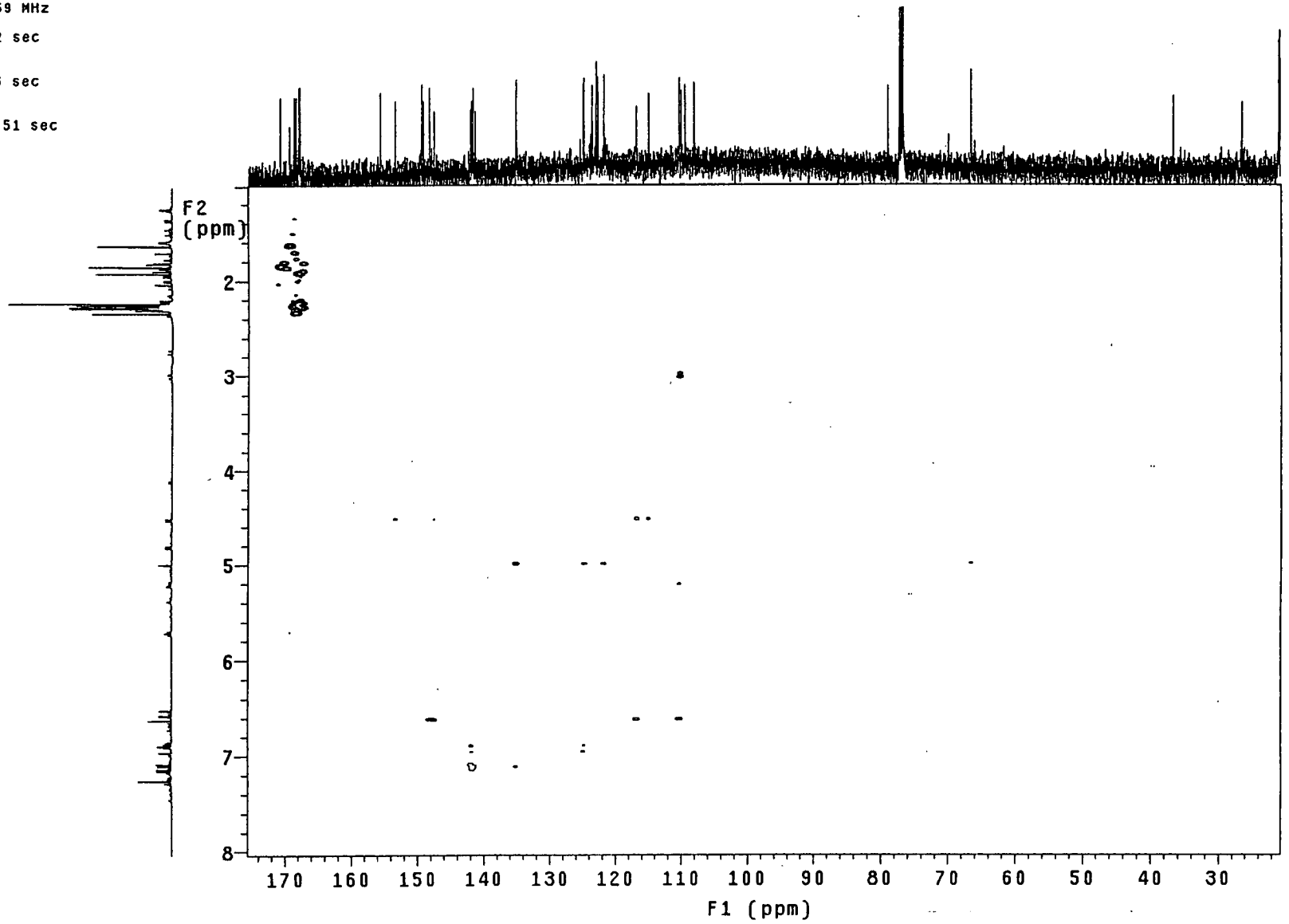


FIGURE 24

P88-17-3

Pulse Sequence: CIGAR

Solvent: CDCl3
Temp. 25.0 C / 298.1 K
File: P88_17_3_cigar
WORKSTATION "ganymede"

PULSE SEQUENCE: CIGAR
Relax. delay 1.000 sec
Acq. time 0.205 sec
Width 4997.5 Hz
2D Width 25133.5 Hz
64 repetitions
256 increments
OBSERVE H1, 499.7381559 MHz
DATA PROCESSING
Gauss apodization 0.102 sec
Sine bell 0.102 sec
F1 DATA PROCESSING
Gauss apodization 0.016 sec
Sine bell 0.007 sec
FT size 2048 x 4096
Total time 6 hr, 9 min, 51 sec

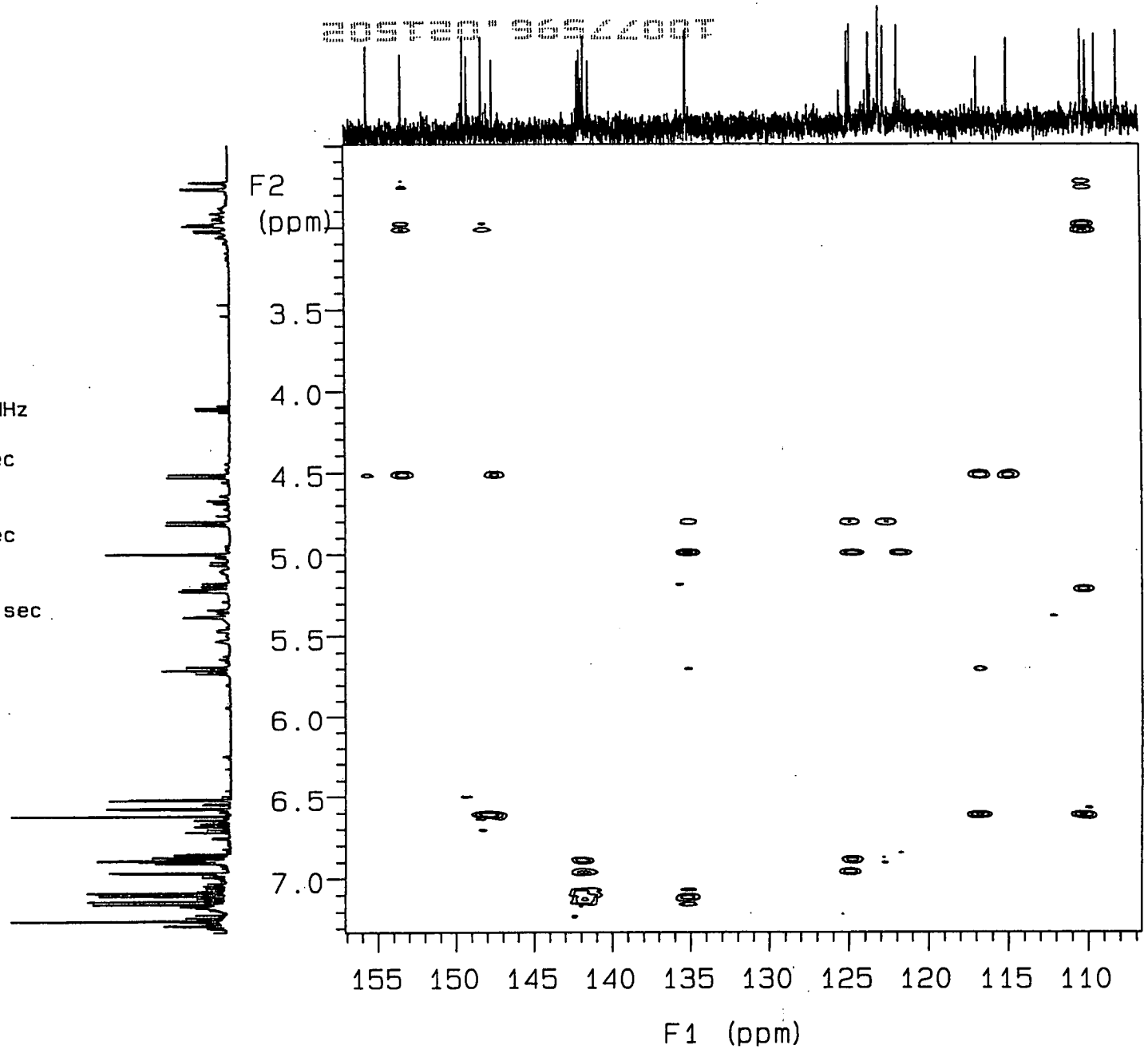


FIGURE 25

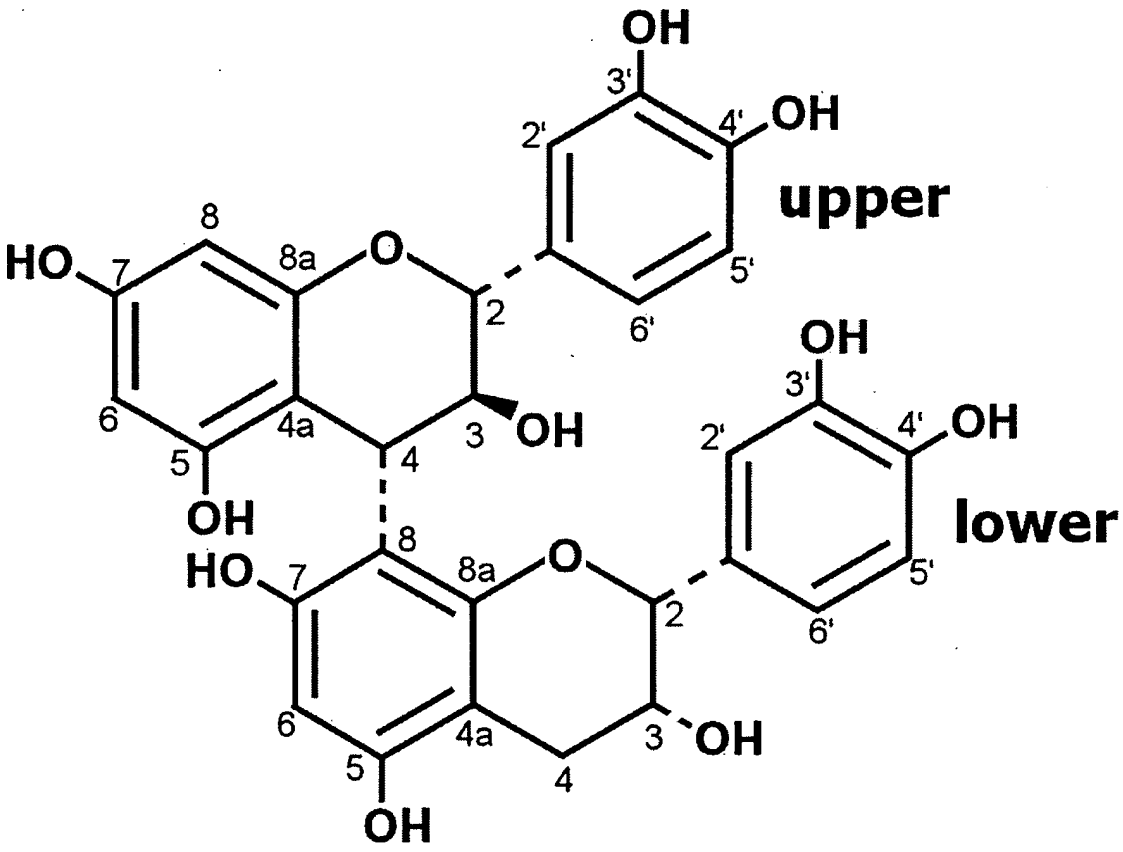

OH
3'
4'
OH
2'
upper
8
HO
7
8a
O
2
5'
6'
6
4a
3
OH
5
4
OH
OH
3'
2'
4'
OH
lower
HO
7
8
8a
O
2
5'
6'
6
4a
3
OH
5
4
OH

FIGURE 26

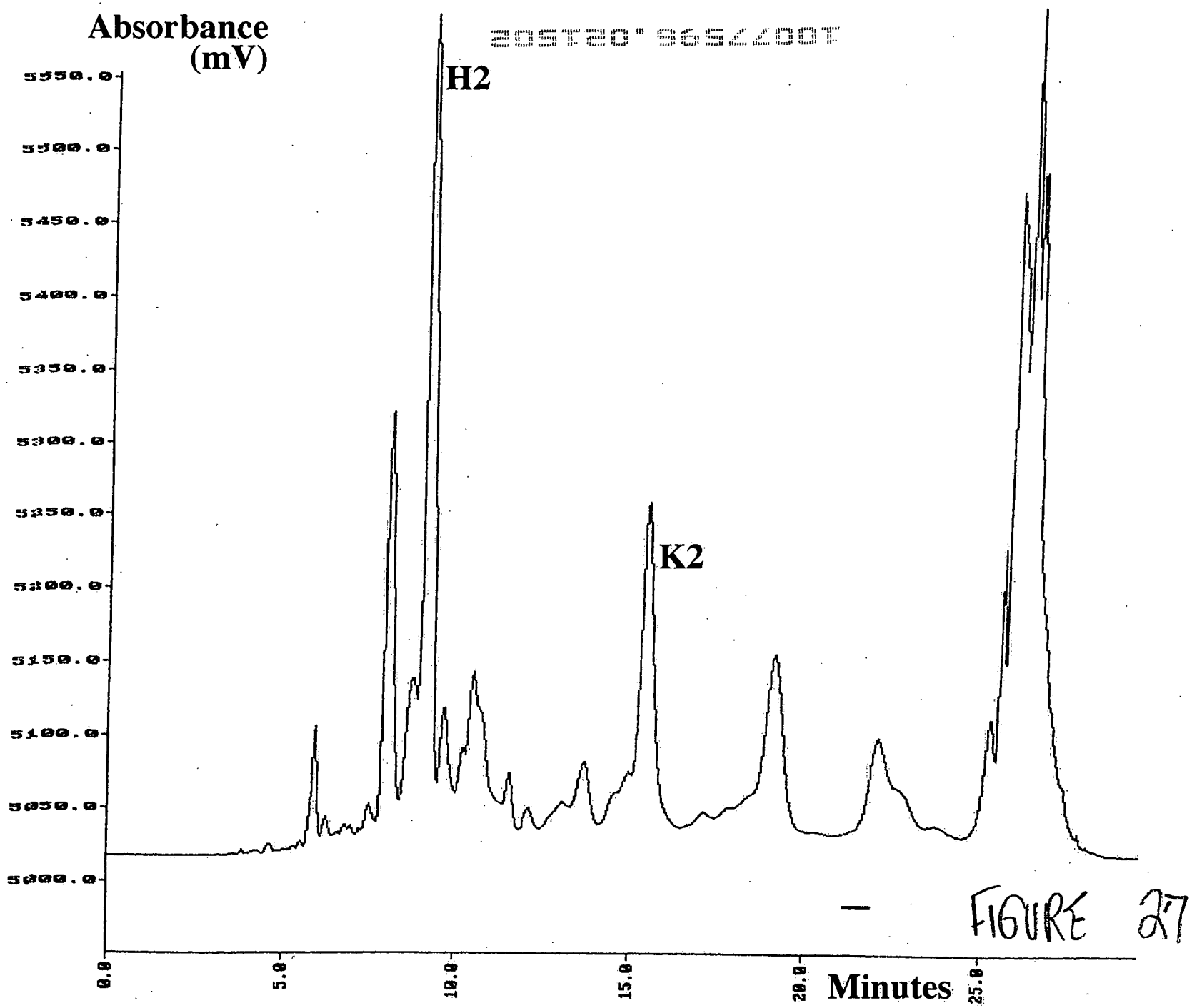

Absorbance
(mV)
H2
K2
5550.0
5500.0
5450.0
5400.0
5350.0
5300.0
5250.0
5200.0
5150.0
5100.0
5050.0
5000.0
0.0
5.0
10.0
15.0
20.0
25.0
Minutes

FIGURE 27

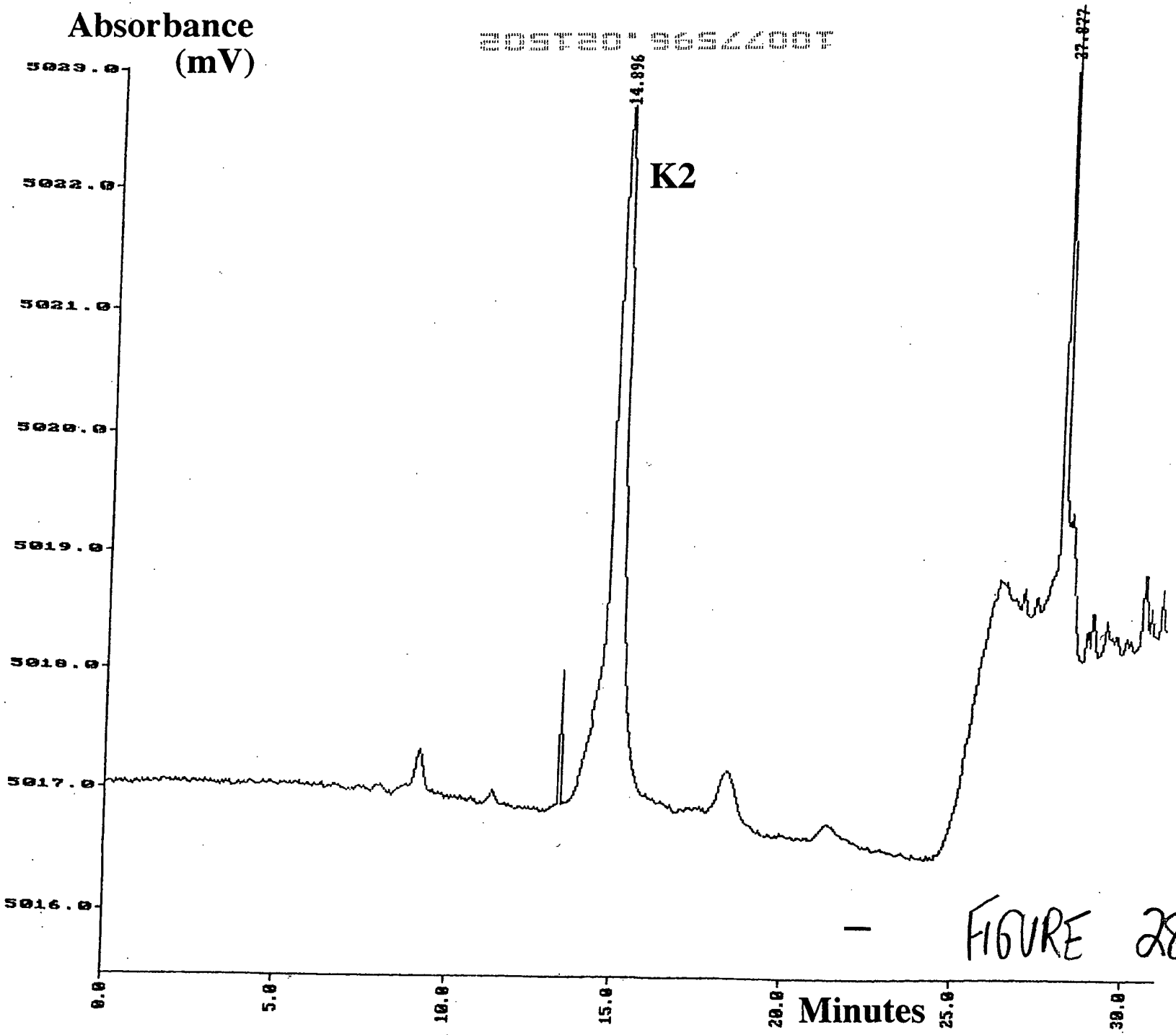

Absorbance
(mV)
5023.0
5022.0
5021.0
5020.0
5019.0
5018.0
5017.0
5016.0
14.896
27.077
K2
0.0
5.0
10.0
15.0
20.0
25.0
30.0
Minutes

FIGURE 28

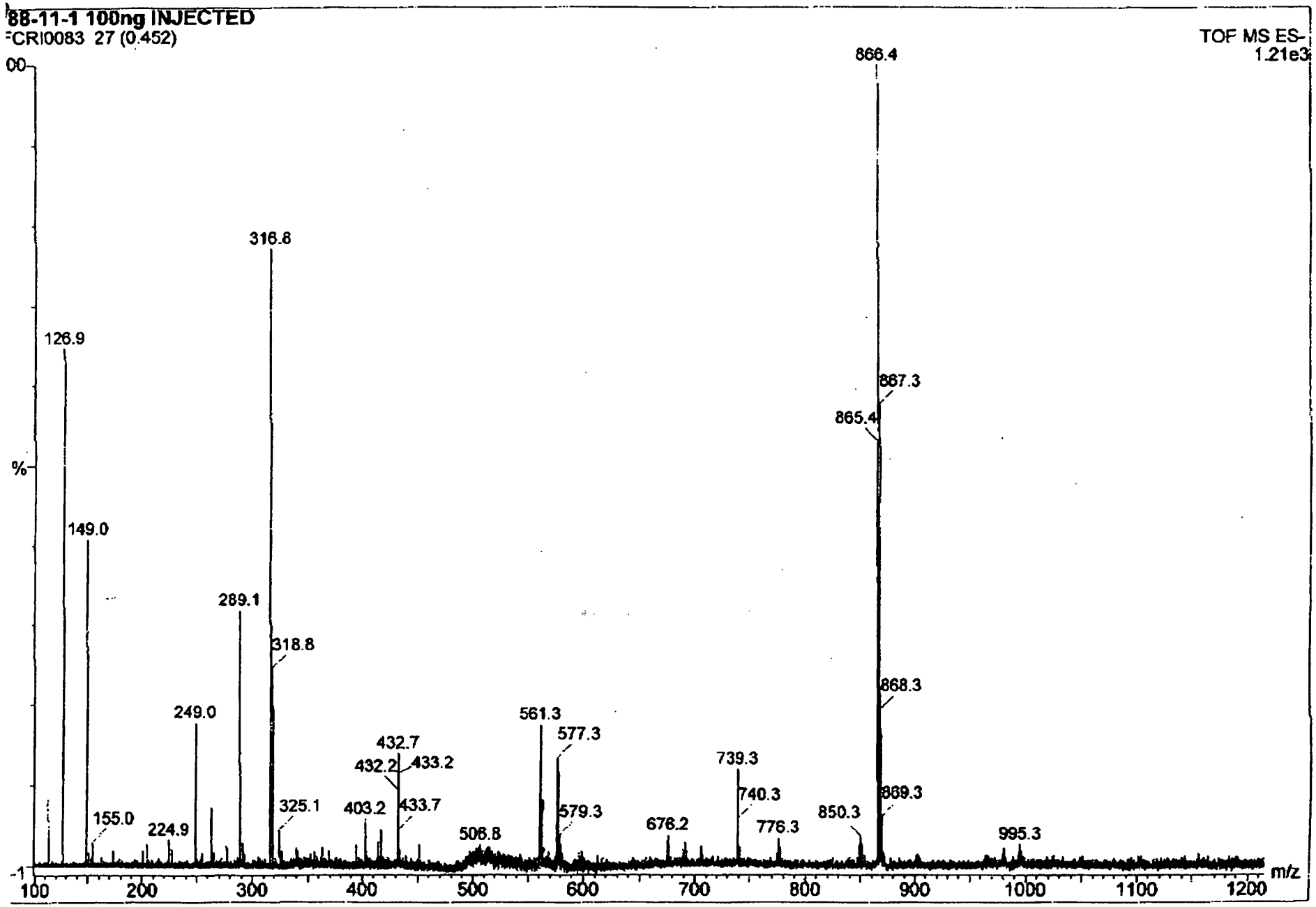

88-11-1 100ng INJECTED
=CRI0083 27 (0.452)
TOF MS ES-
1.21e3
00
%
-1
m/z
866.4
316.8
126.9
867.3
865.4
149.0
289.1
318.8
868.3
249.0
561.3
577.3
432.7
432.2
433.2
739.3
740.3
869.3
155.0
224.9
325.1
403.2
433.7
579.3
676.2
776.3
850.3
506.8
995.3
100
200
300
400
500
600
700
800
900
1000
1100
1200

FIGURE 29

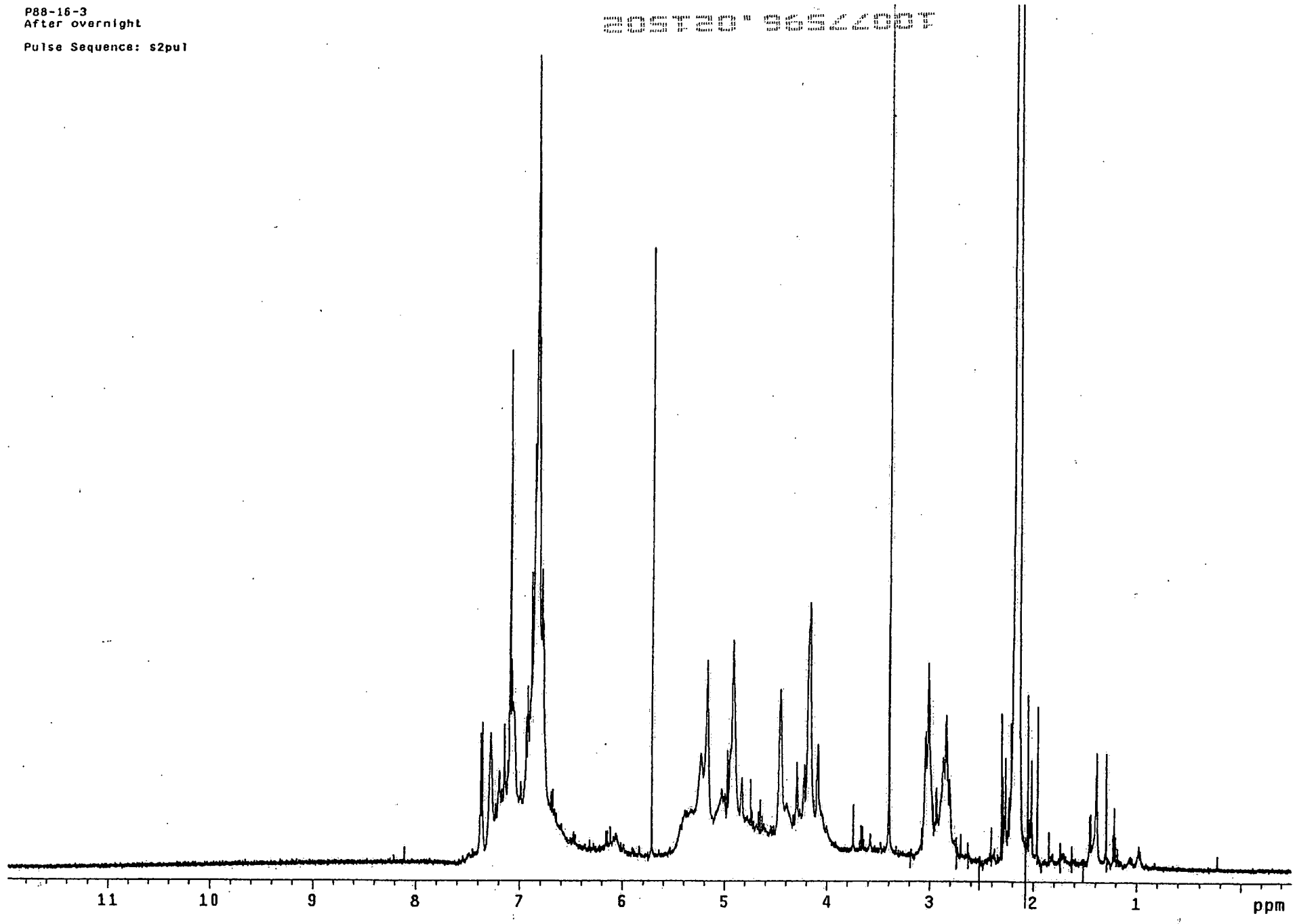

P88-16-3
After overnight
Pulse Sequence: s2pul
11
10
9
8
7
6
5
4
3
2
1
ppm

FIGURE 30

P88-22-11

Pulse Sequence: s2pul
Solvent: CDCl3
Temp. 25.0 C / 298.1 K
INOVA-500 "europa"

Relax. delay 1.000 sec
Pulse 54.0 degrees
Acq. time 3.668 sec
Width 4467.0 Hz
32 repetitions
OBSERVE H1, 499.7381570 MHz
DATA PROCESSING
FT size 65536
Total time 2 min, 29 sec

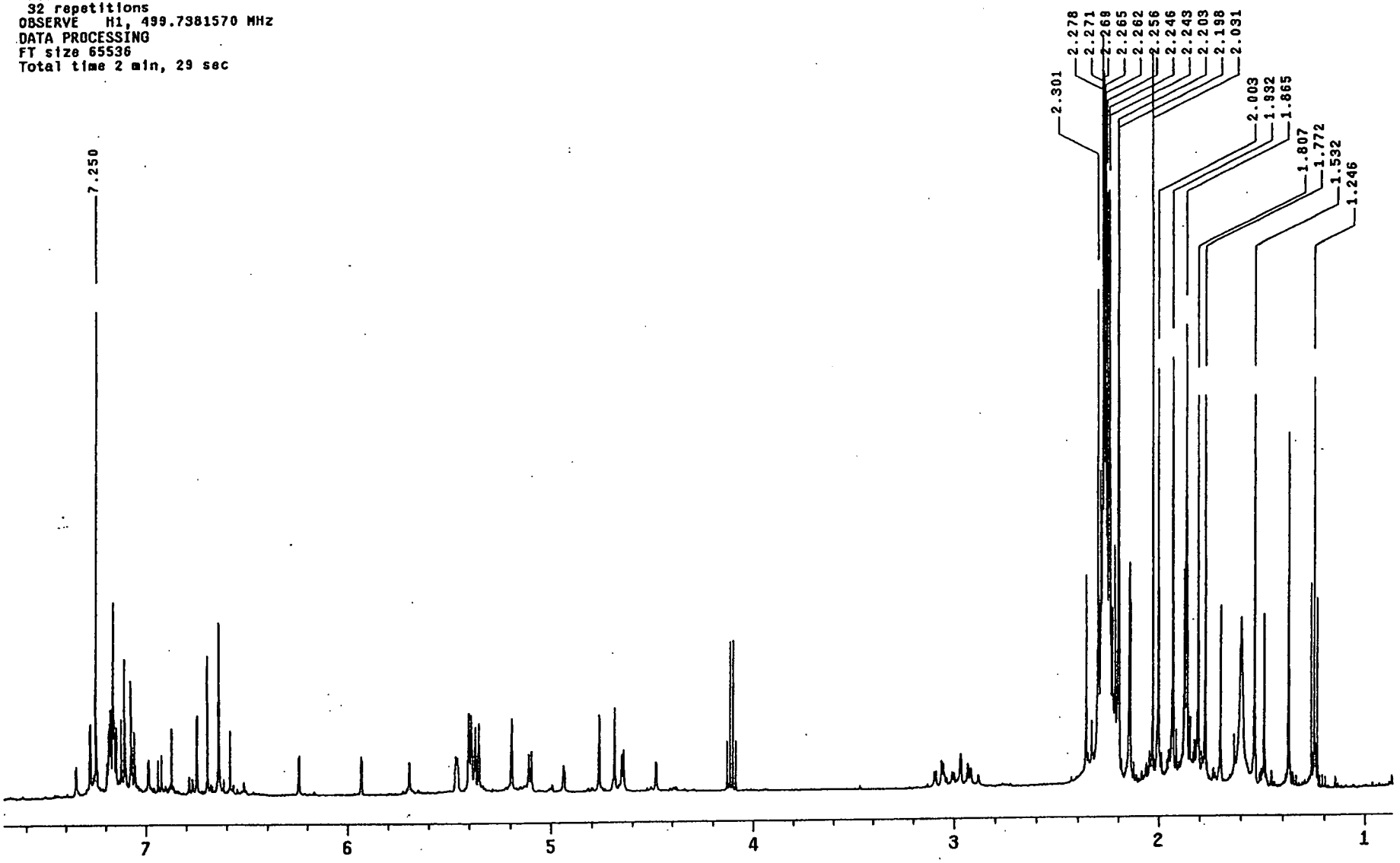
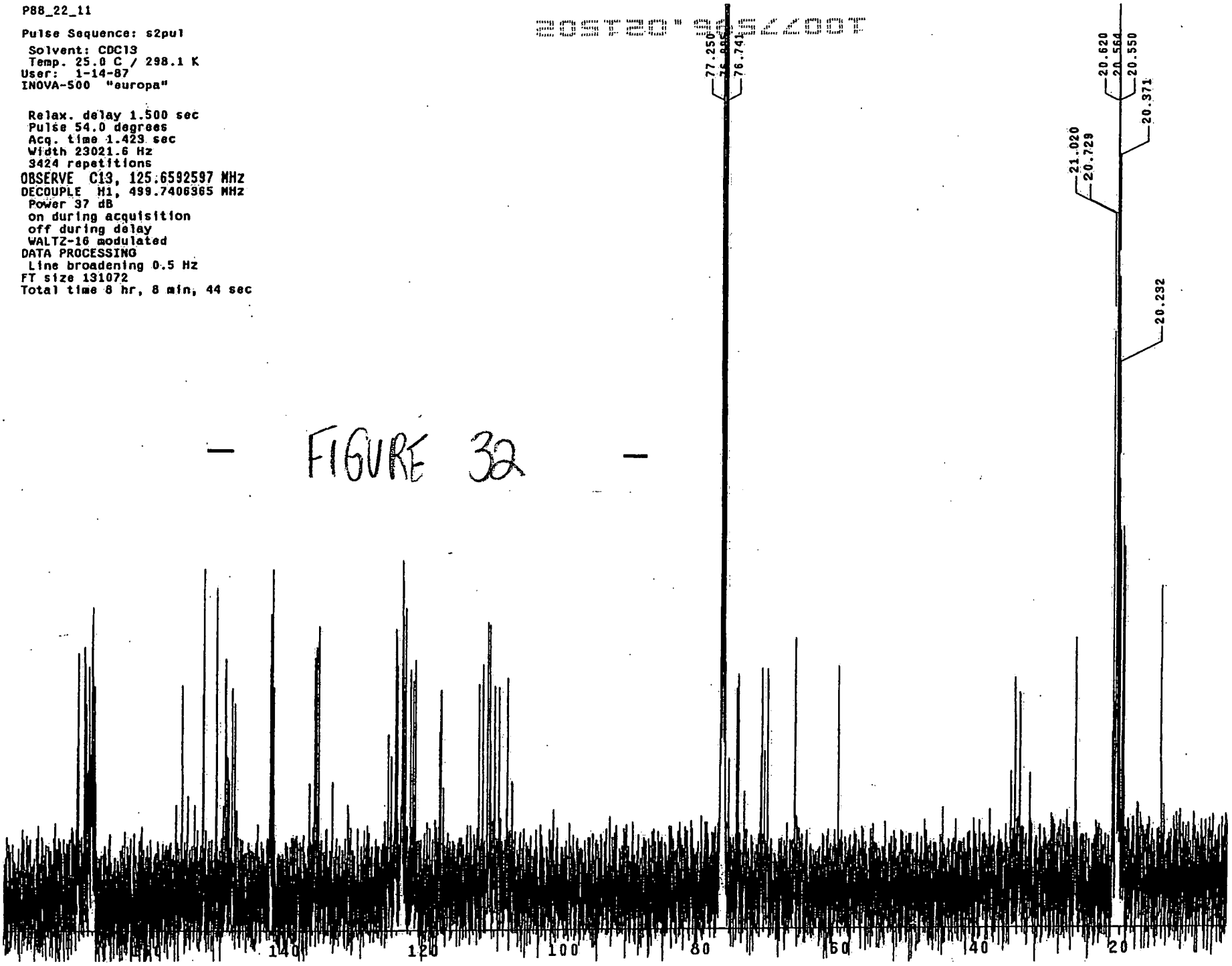


FIGURE 31

P88_22_11

Pulse Sequence: s2pul
Solvent: CDCl3
Temp. 25.0 C / 298.1 K
User: 1-14-87
INOVA-500 "europa"

Relax. delay 1.500 sec
Pulse 54.0 degrees
Acq. time 1.423 sec
Width 23021.6 Hz
3424 repetitions
OBSERVE C13, 125.6592597 MHz
DECOUPLE H1, 499.7406965 MHz
Power 37 dB
on during acquisition
off during delay
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 131072
Total time 8 hr, 8 min, 44 sec



— FIGURE 32 —

Pulse Sequence: CIGAR
Solvent: CDCl3
Temp. 25.0 C / 298.1 K
User: 1-14-87
INOVA-500 "europa"

Relax. delay 1.000 sec
Acq. time 0.229 sec
Width 4467.0 Hz
2D Width 23021.6 Hz
32 repetitions
256 increments
OBSERVE H1, 499.7381570 MHz
DATA PROCESSING
Gauss apodization 0.115 sec
Sine bell 0.115 sec
F1 DATA PROCESSING
Gauss apodization 0.011 sec
Sine bell 0.007 sec
FT size 2048 x 4096
Total time 3 hr, 8 min, 41 sec

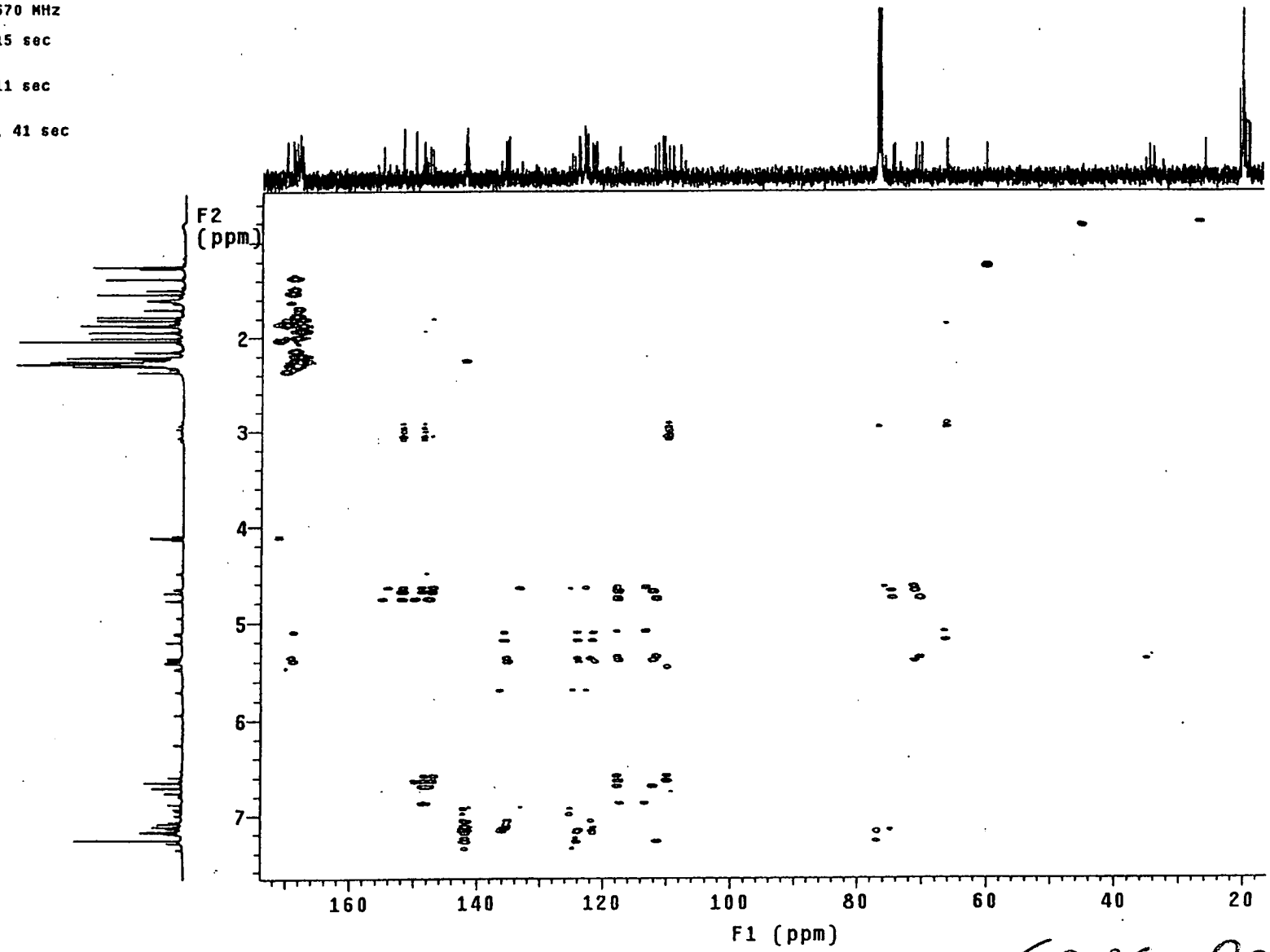


FIGURE 33

Feb-22-11

Pulse Sequence: CIGAR
Solvent: CDCl3
Temp. 25.0 C / 298.1 K
User: 1-14-87
INOVA-500 "europa"

Relax. delay 1.000 sec
Acq. time 0.229 sec
Width 4467.0 Hz
2D Width 23021.6 Hz
32 repetitions
256 increments
OBSERVE H1, 499.7381570 MHz
DATA PROCESSING
Gauss apodization 0.115 sec
Sine bell 0.115 sec
F1 DATA PROCESSING
Gauss apodization 0.011 sec
Sine bell 0.007 sec
FT size 2048 x 4096
Total time 3 hr, 8 min, 41 sec

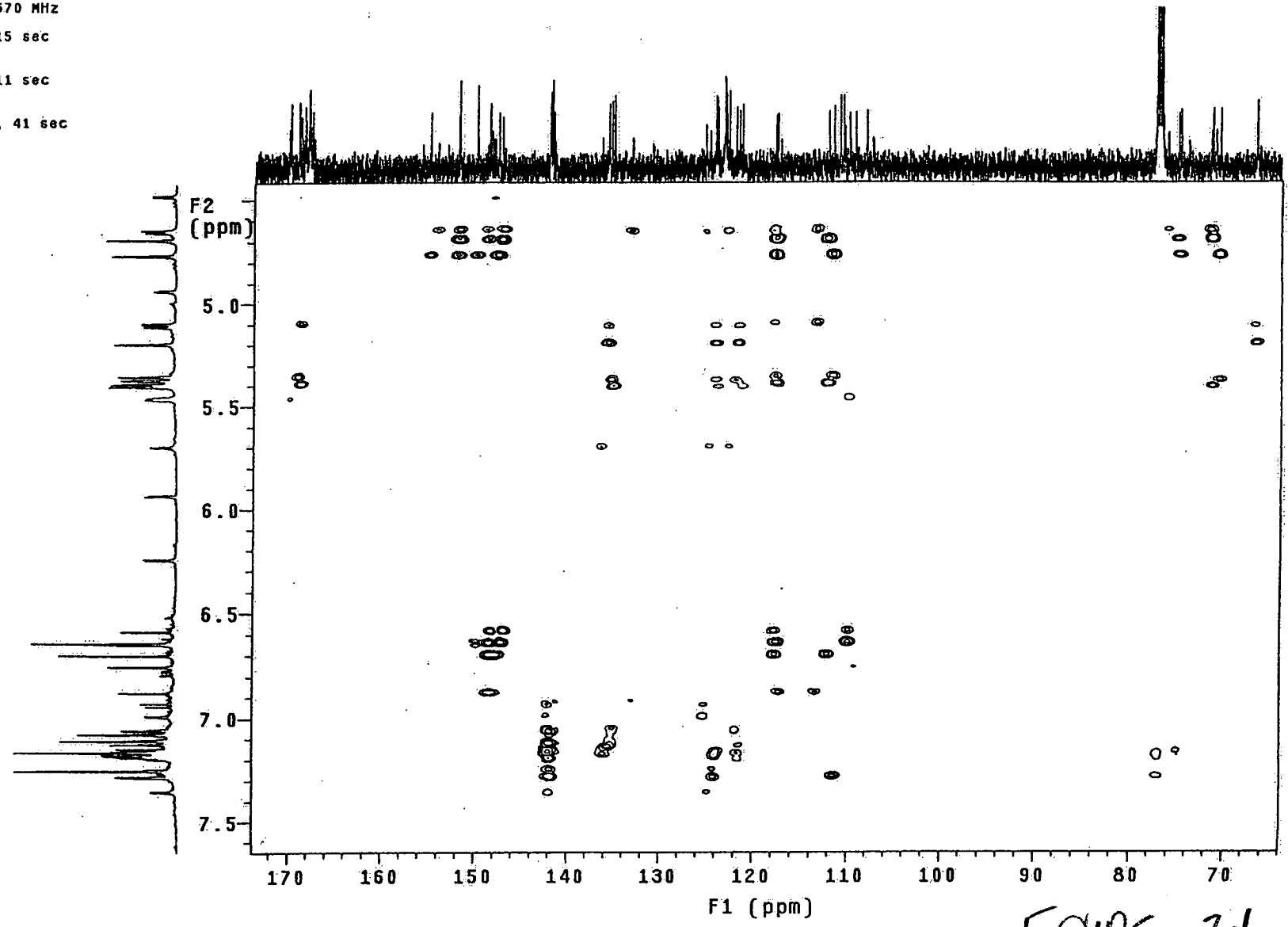


FIGURE 34

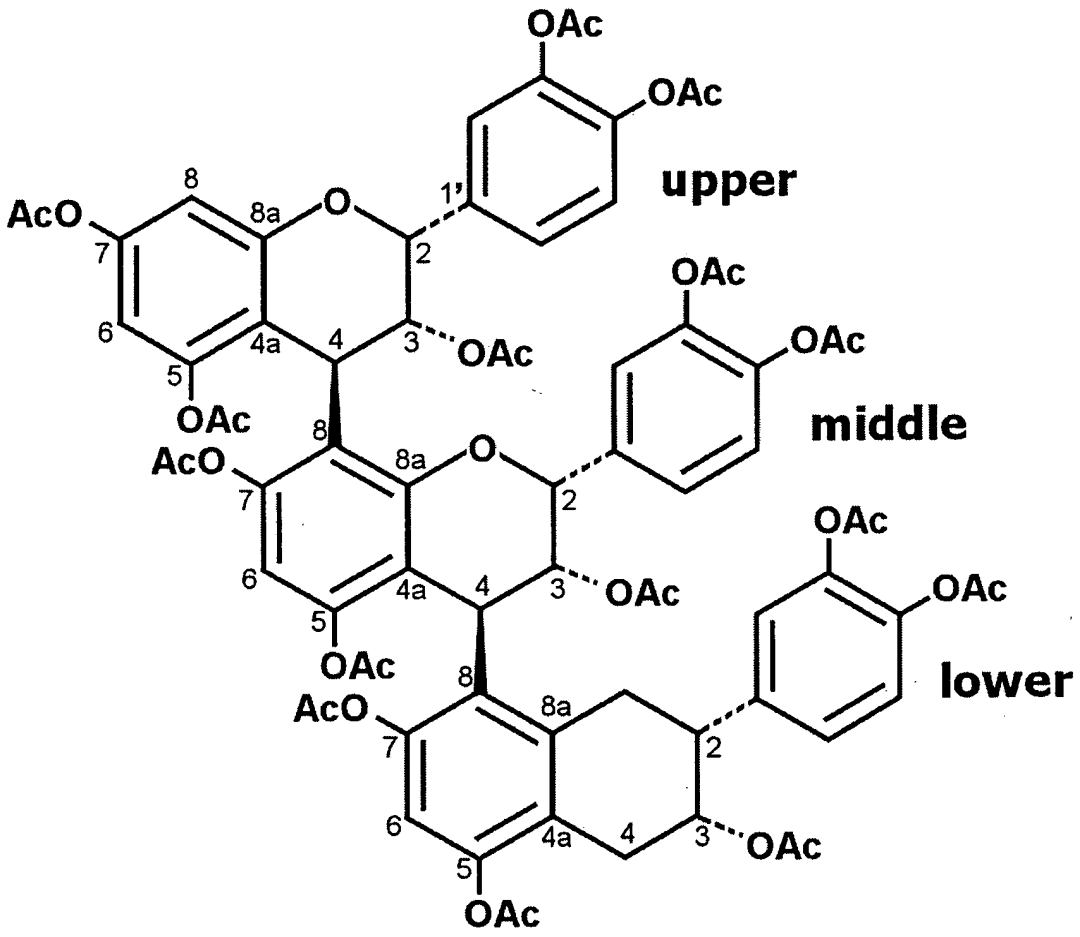

OAc
OAc
upper
AcO
8
8a
O
1'
7
2
6
4a
4
3
OAc
OAc
OAc
5
OAc
middle
AcO
8
8a
O
7
2
6
4a
4
3
OAc
OAc
OAc
5
OAc
lower
AcO
8
8a
7
2
6
4a
4
3
OAc
5
OAc

FIGURE 35

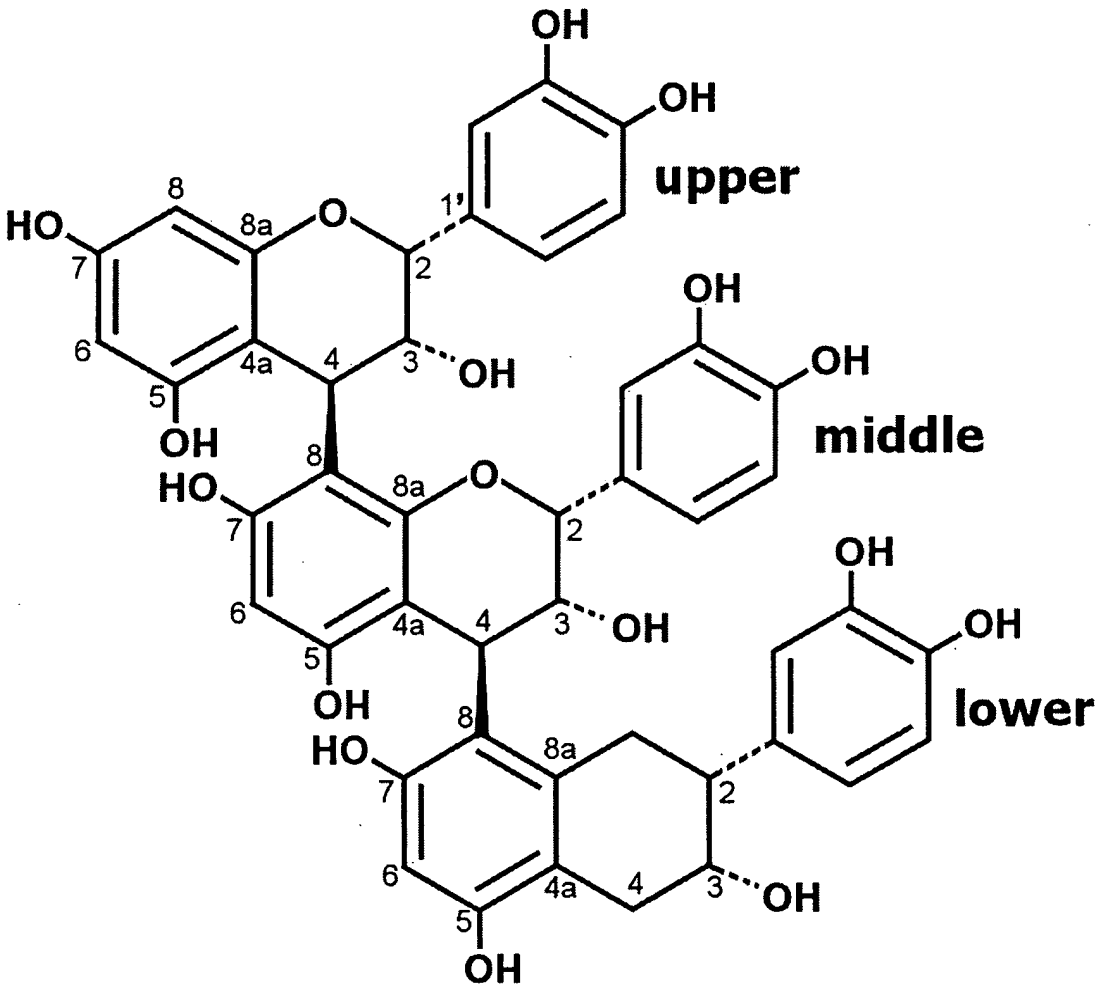
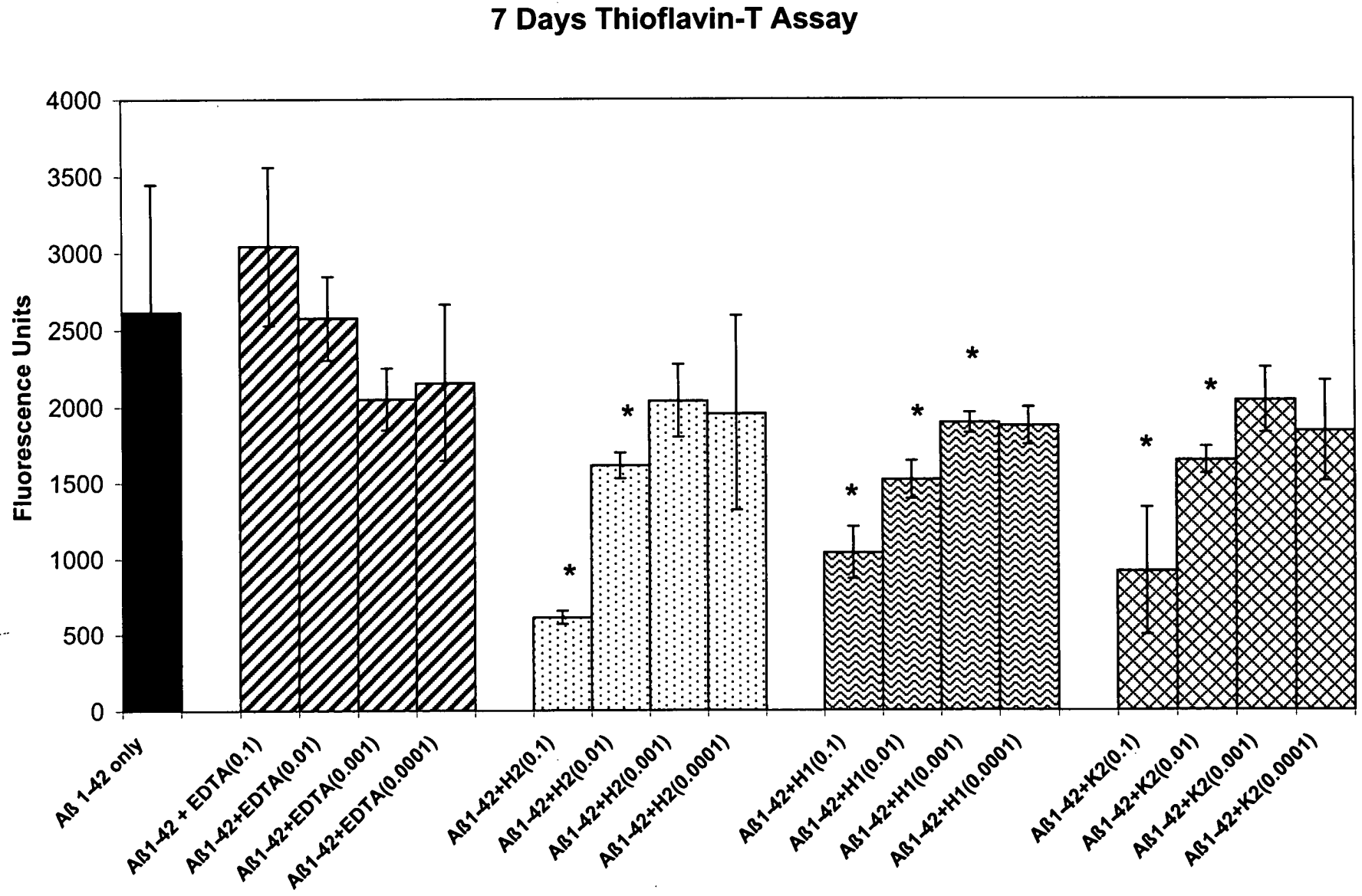

OH
OH
upper
HO
8
8a
O
1'
2
7
6
4a
4
3
OH
5
OH
OH
middle
HO
8
8a
O
2
7
6
4a
4
3
OH
5
OH
OH
lower
HO
8
8a
2
7
6
4a
4
3
OH
5
OH

FIGURE 36



– FIGURE 37 –

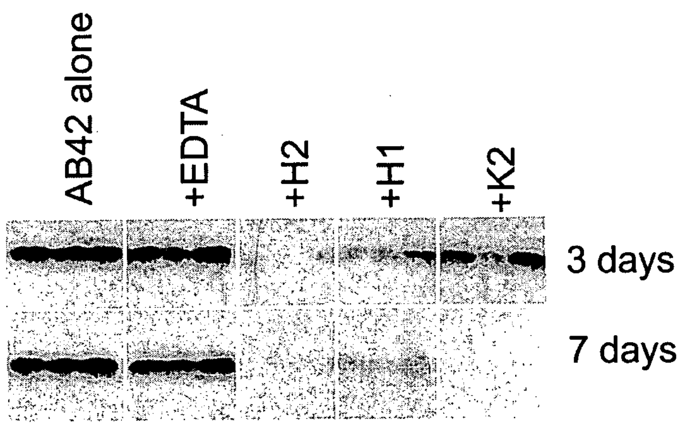


FIGURE 38

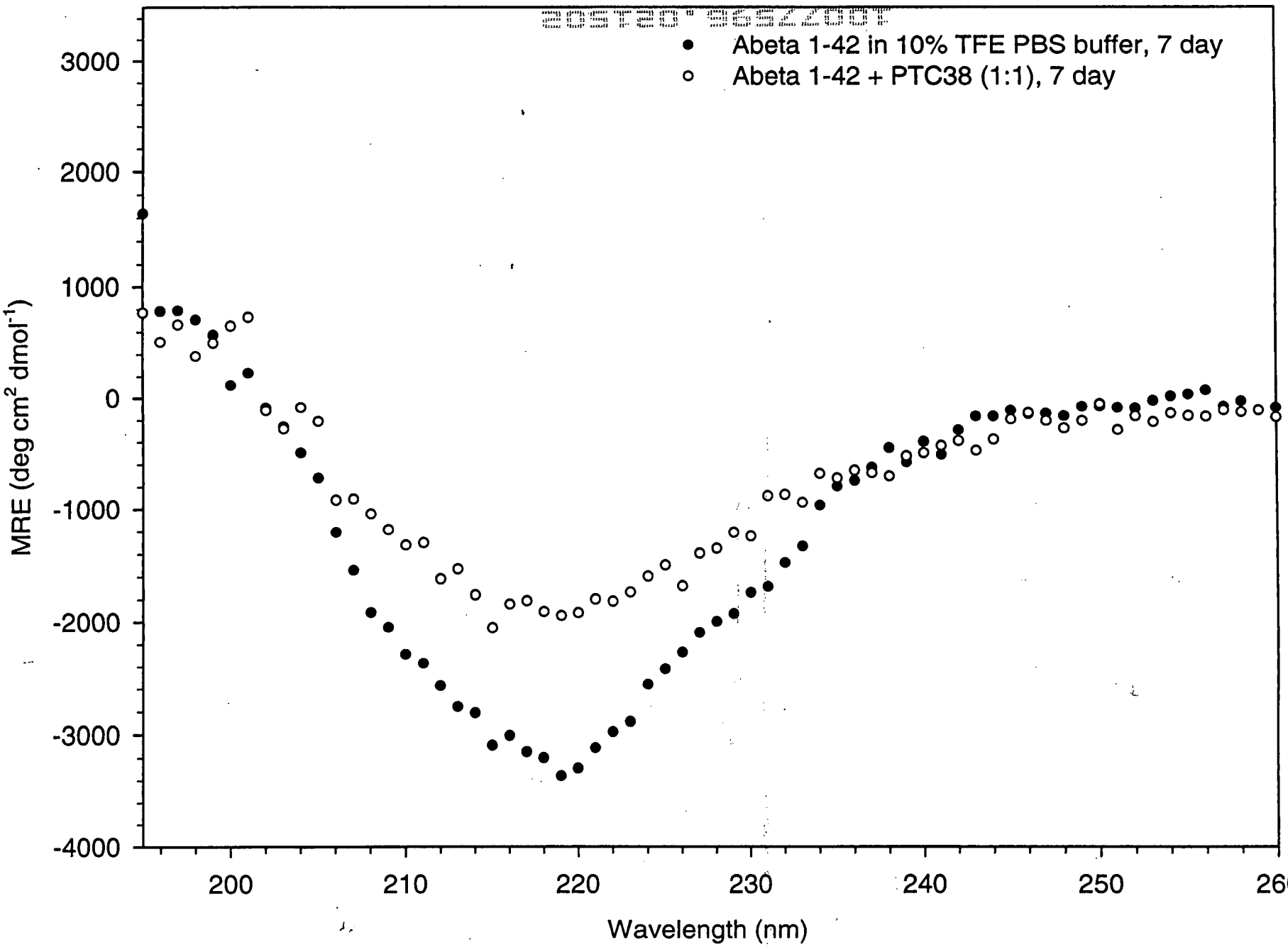

Abeta 1-42 in 10% TFE PBS buffer, 7 day
Abeta 1-42 + PTC38 (1:1), 7 day
MRE (deg cm^2 dmol^{-1})
3000
2000
1000
0
-1000
-2000
-3000
-4000
200
210
220
230
240
250
260
Wavelength (nm)

FIGURE 39

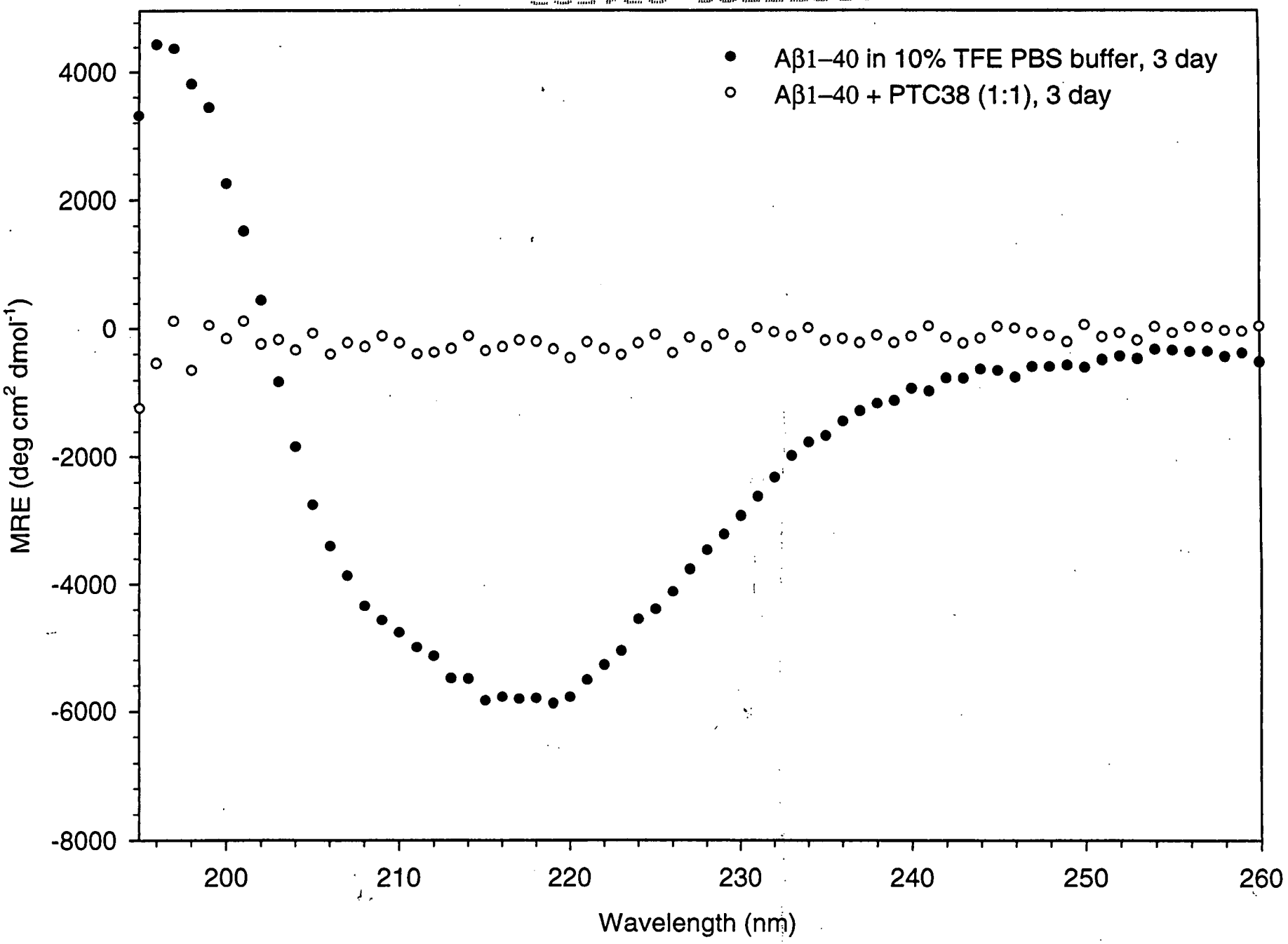


FIGURE 40

7 Days Thioflavin-T Assay

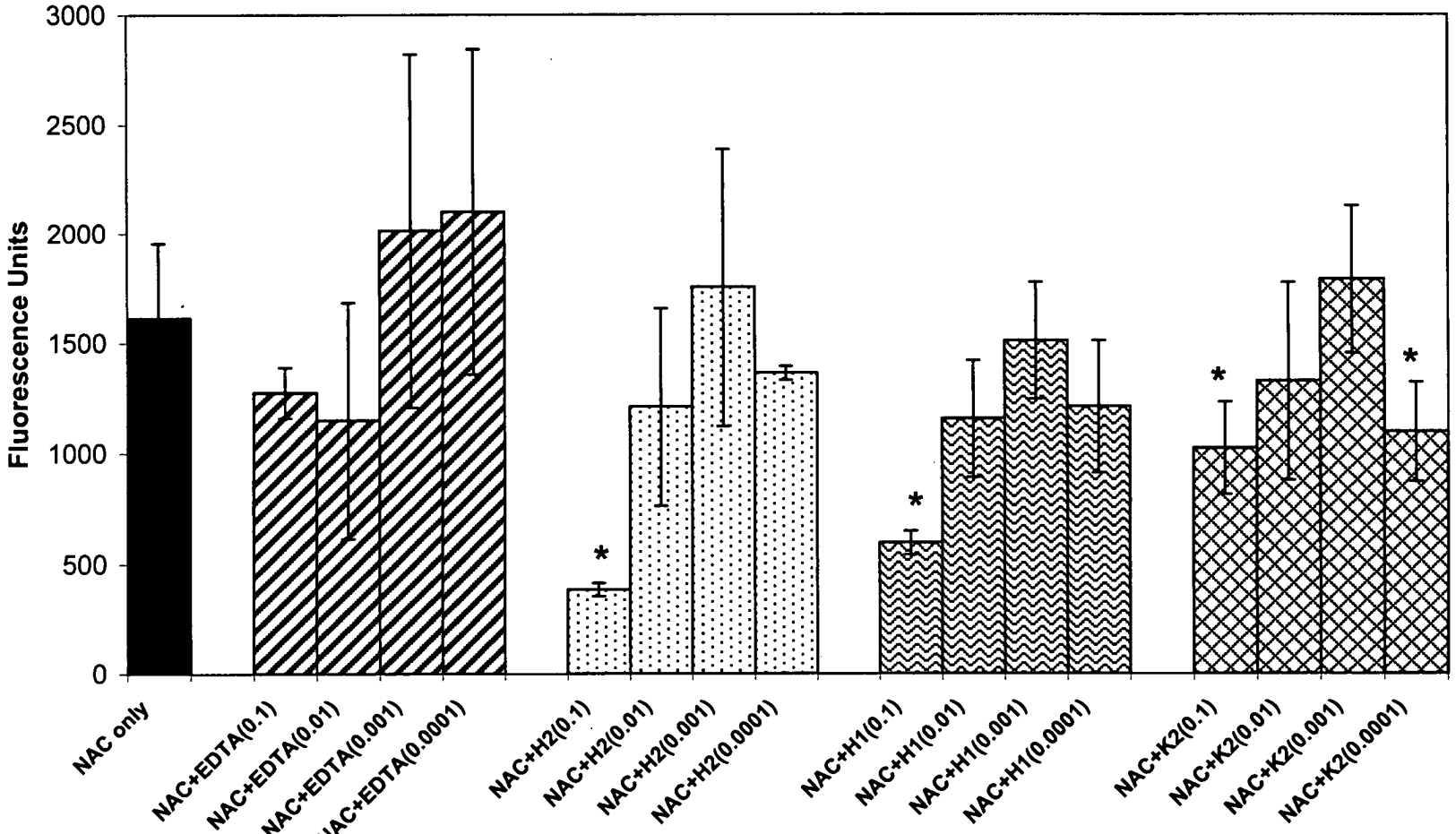


FIGURE 41

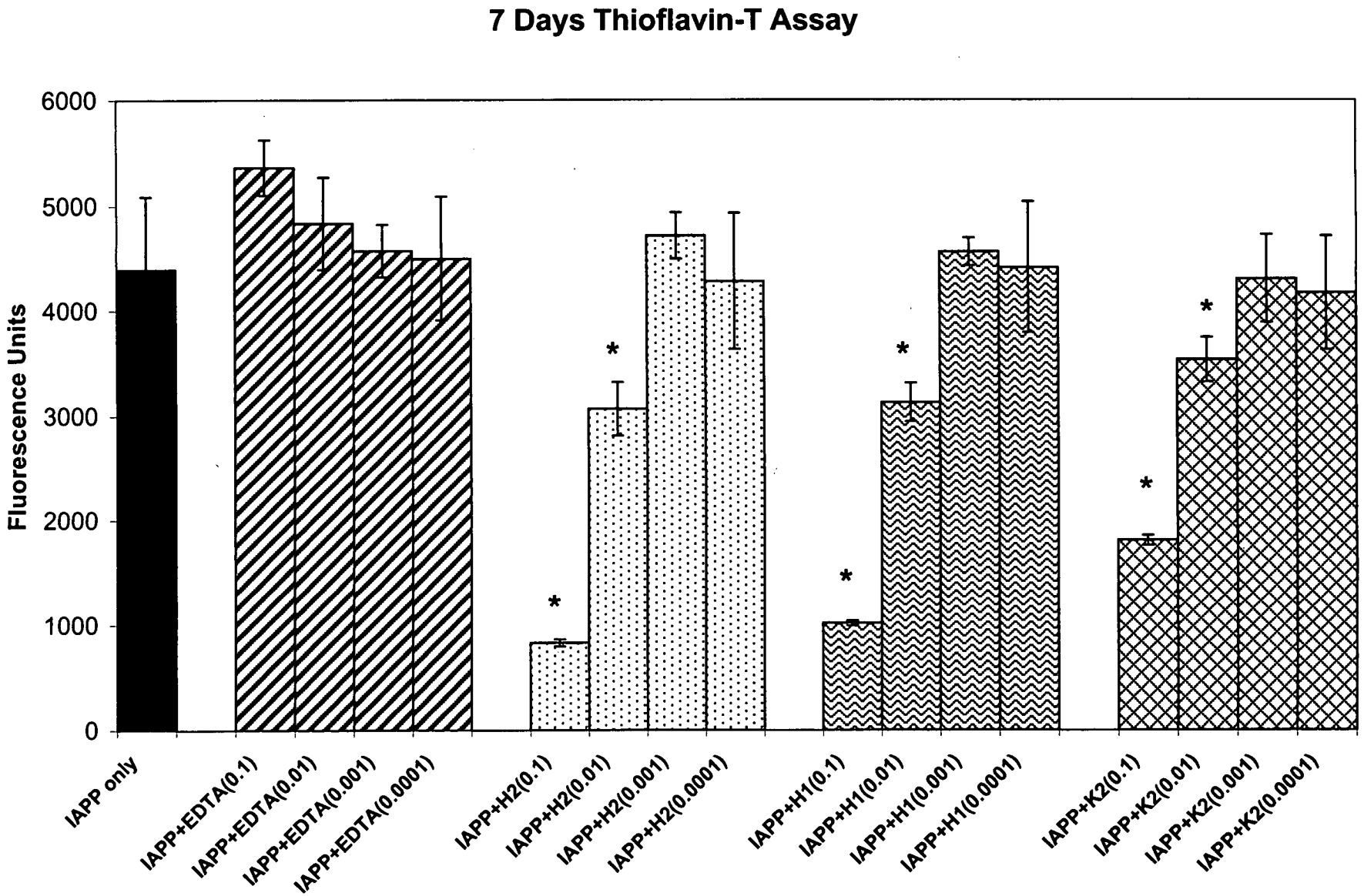


FIGURE 42

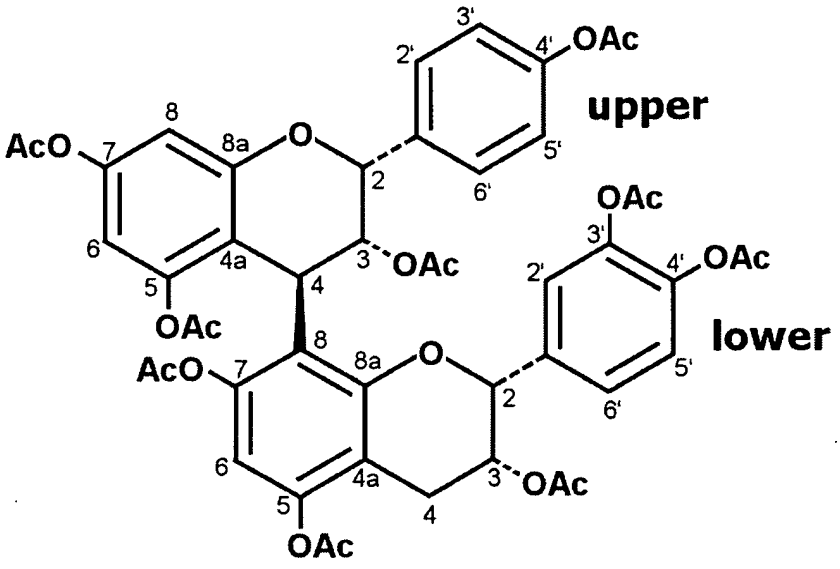


FIGURE 43

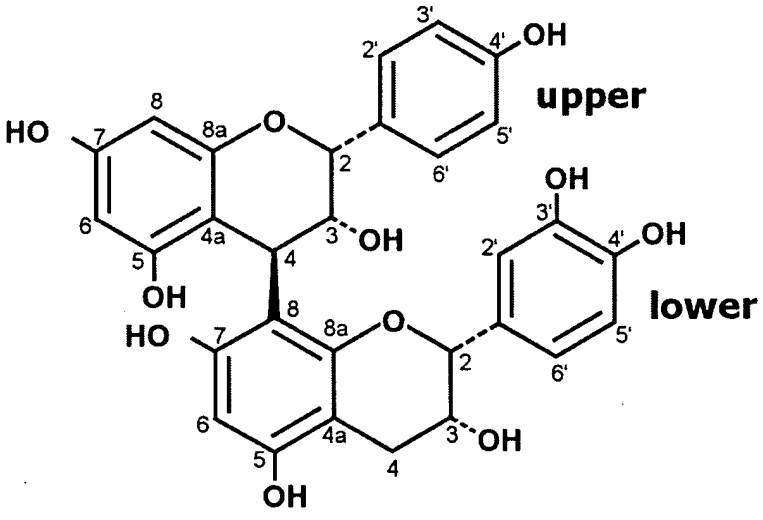


FIGURE 44

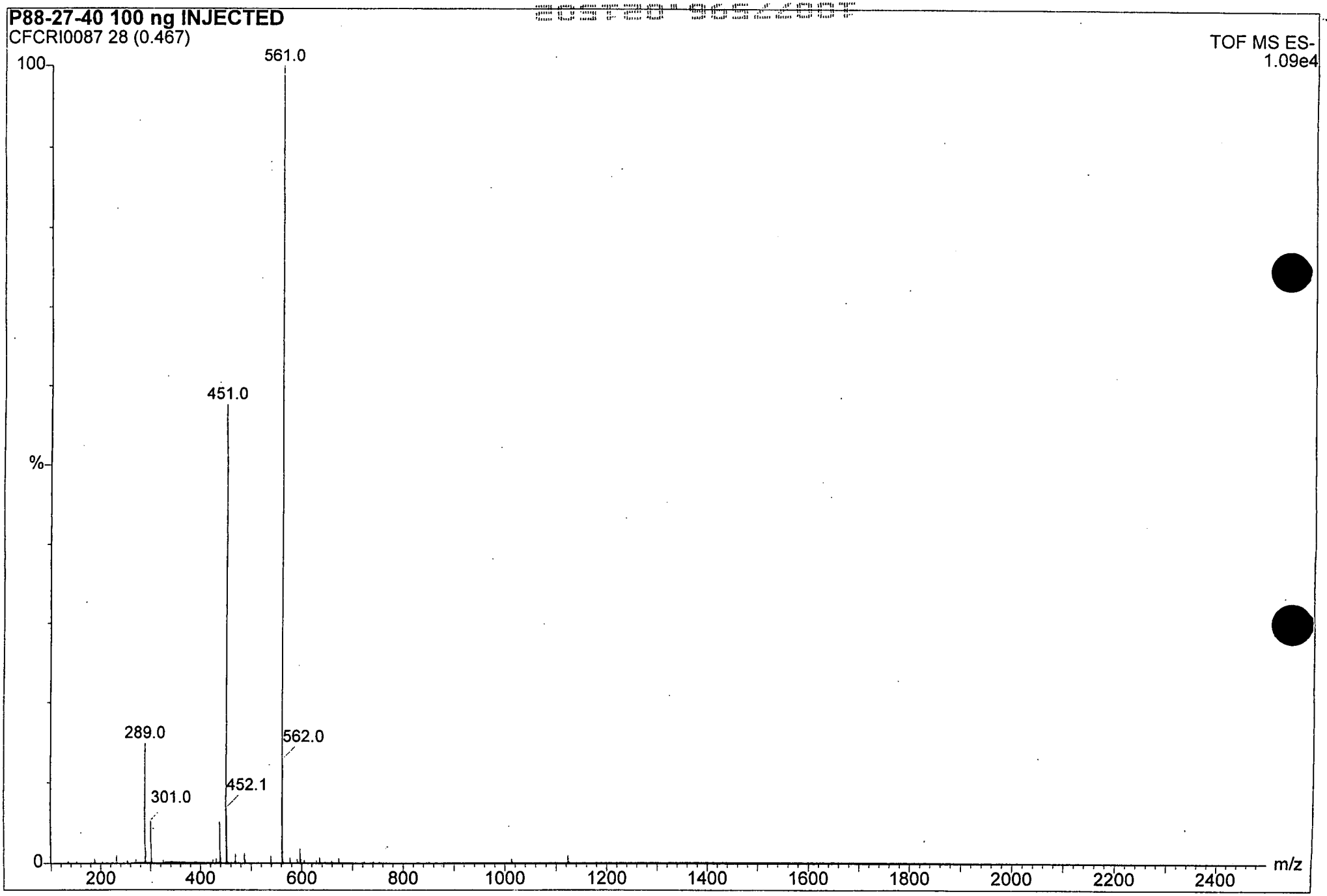

P88-27-40 100 ng INJECTED
CFCRI0087 28 (0.467)
TOF MS ES-
1.09e4
100
%
0
561.0
451.0
289.0
562.0
301.0
452.1
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
m/z

FIGURE 45

29.621
29.724
29.987
30.046
30.075
30.105
30.134
30.236
30.368
30.397
30.500
30.588
30.617
30.749
31.013
31.261
37.690
67.109
73.465
77.697
79.952
96.631
97.099
97.744
101.302
115.624
116.136
119.841
129.887
132.478
145.980
145.790
156.479
158.281
ppm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160

FIGURE 46

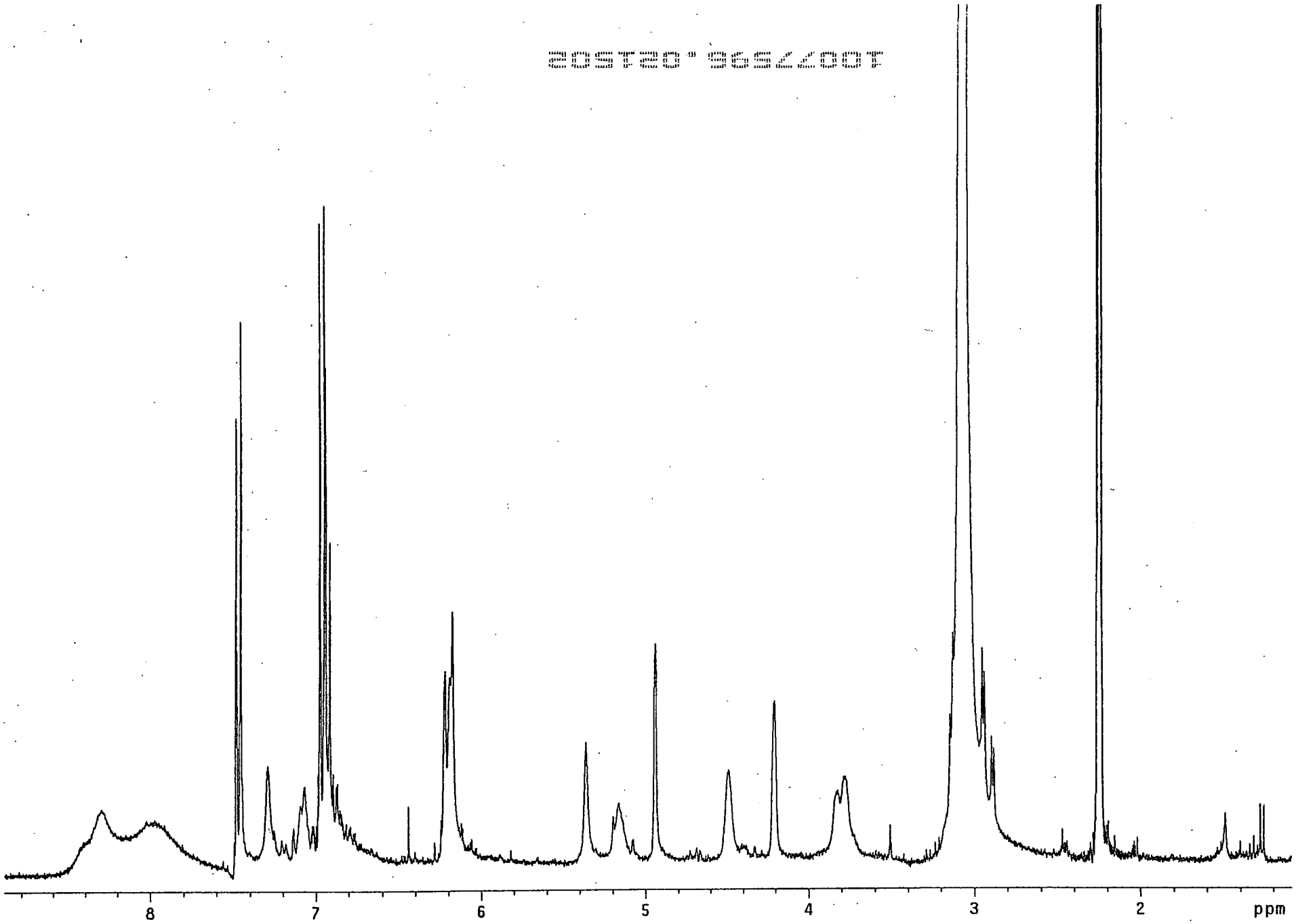


FIGURE 47

P88-27-40a

Pulse Sequence: s2pul
Solvent: CDCl3
Temp. 25.0 C / 298.1 K
INOVA-500 "europa"

Relax. delay 1.000 sec
Pulse 54.0 degrees
Acq. time 3.185 sec
Width 5144.4 Hz
128 repetitions
OBSERVE H1, 499.7381577 MHz
DATA PROCESSING
FT size 65536
Total time 8 min, 56 sec

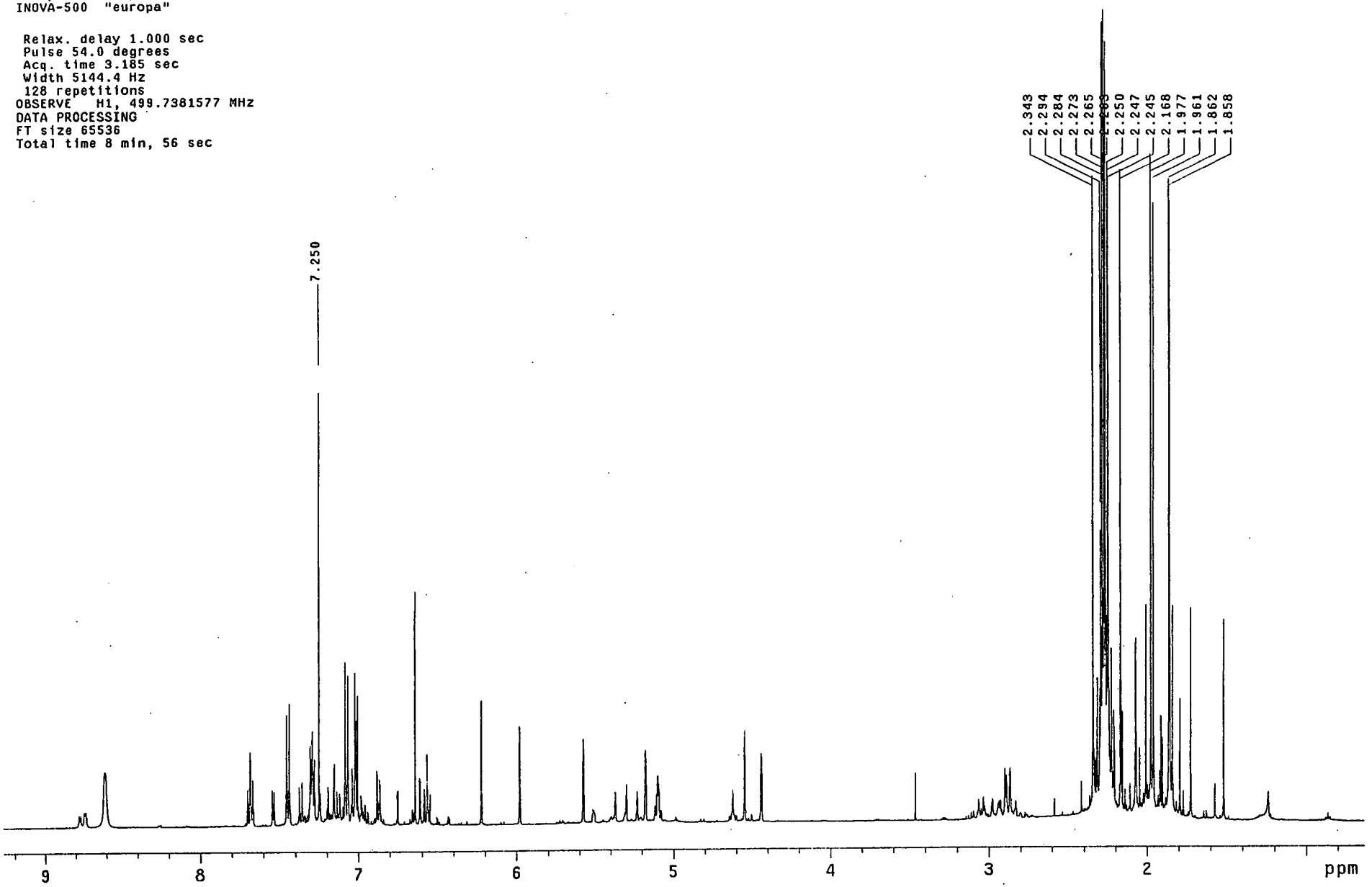


FIGURE 48

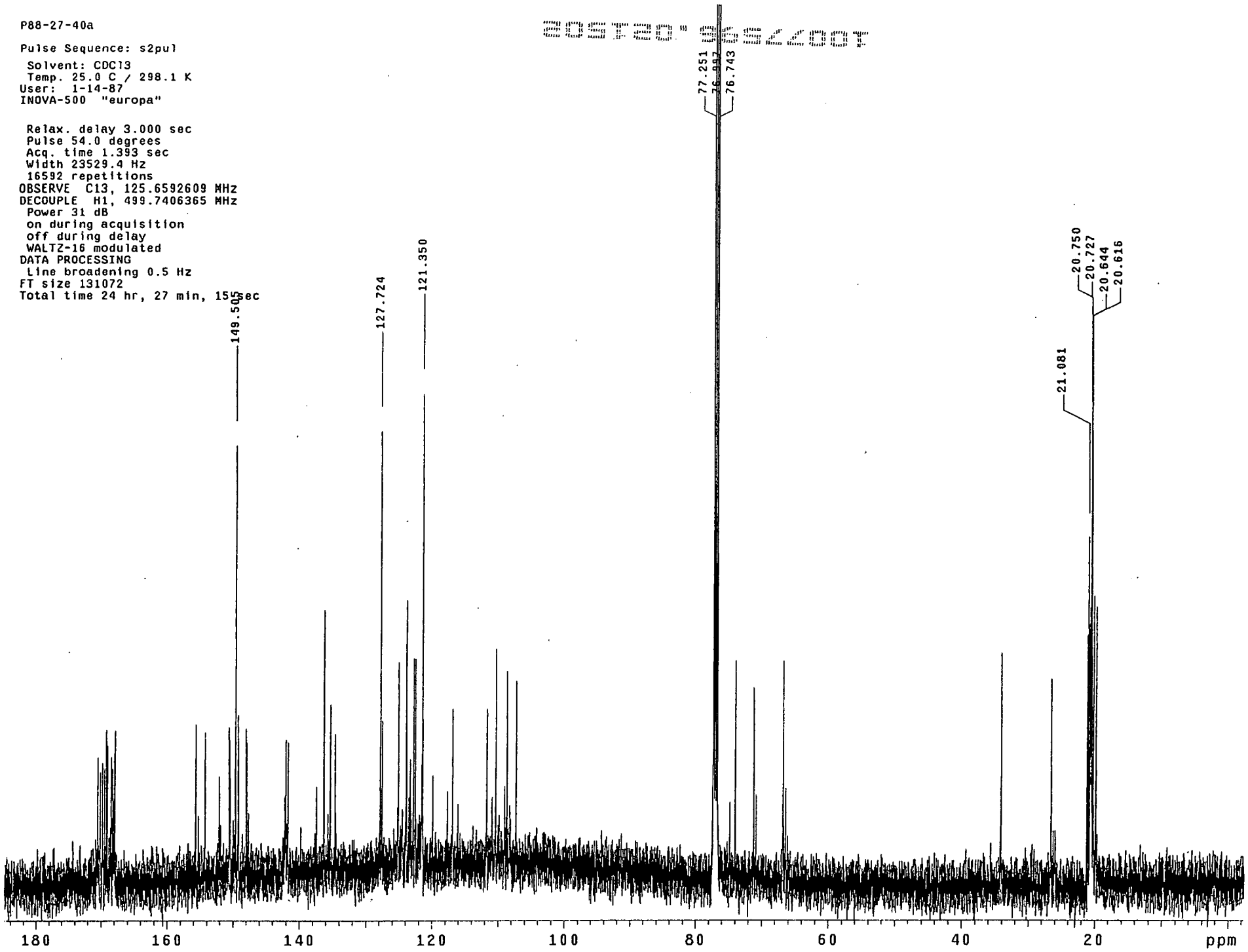

P88-27-40a
Pulse Sequence: s2pul
Solvent: CDCl3
Temp. 25.0 C / 298.1 K
User: 1-14-87
INOVA-500 "europa"
Relax. delay 3.000 sec
Pulse 54.0 degrees
Acq. time 1.393 sec
Width 23529.4 Hz
16592 repetitions
OBSERVE C13, 125.6592609 MHz
DECOUPLE H1, 499.7406365 MHz
Power 31 dB
on during acquisition
off during delay
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 131072
Total time 24 hr, 27 min, 15 sec
149.505
127.724
121.350
77.251
76.743
21.081
20.750
20.727
20.644
20.616
180
160
140
120
100
80
60
40
20
ppm

FIGURE 49

P88-27-40a

Pulse Sequence: CIGAR
Solvent: CDCl3
Temp. 25.0 C / 298.1 K
User: 1-14-87
INOVA-500 "europa"

Relax. delay 1.000 sec
Acq. time 0.199 sec
Width 5144.4 Hz
2D Width 23529.4 Hz
192 repetitions
256 increments
OBSERVE H1, 499.7381577 MHz
DATA PROCESSING
Gauss apodization 0.100 sec
Sine bell 0.100 sec
F1 DATA PROCESSING
Gauss apodization 0.011 sec
Sine bell 0.011 sec
FT size 2048 x 4096
Total time 18 hr, 23 min, 37 sec

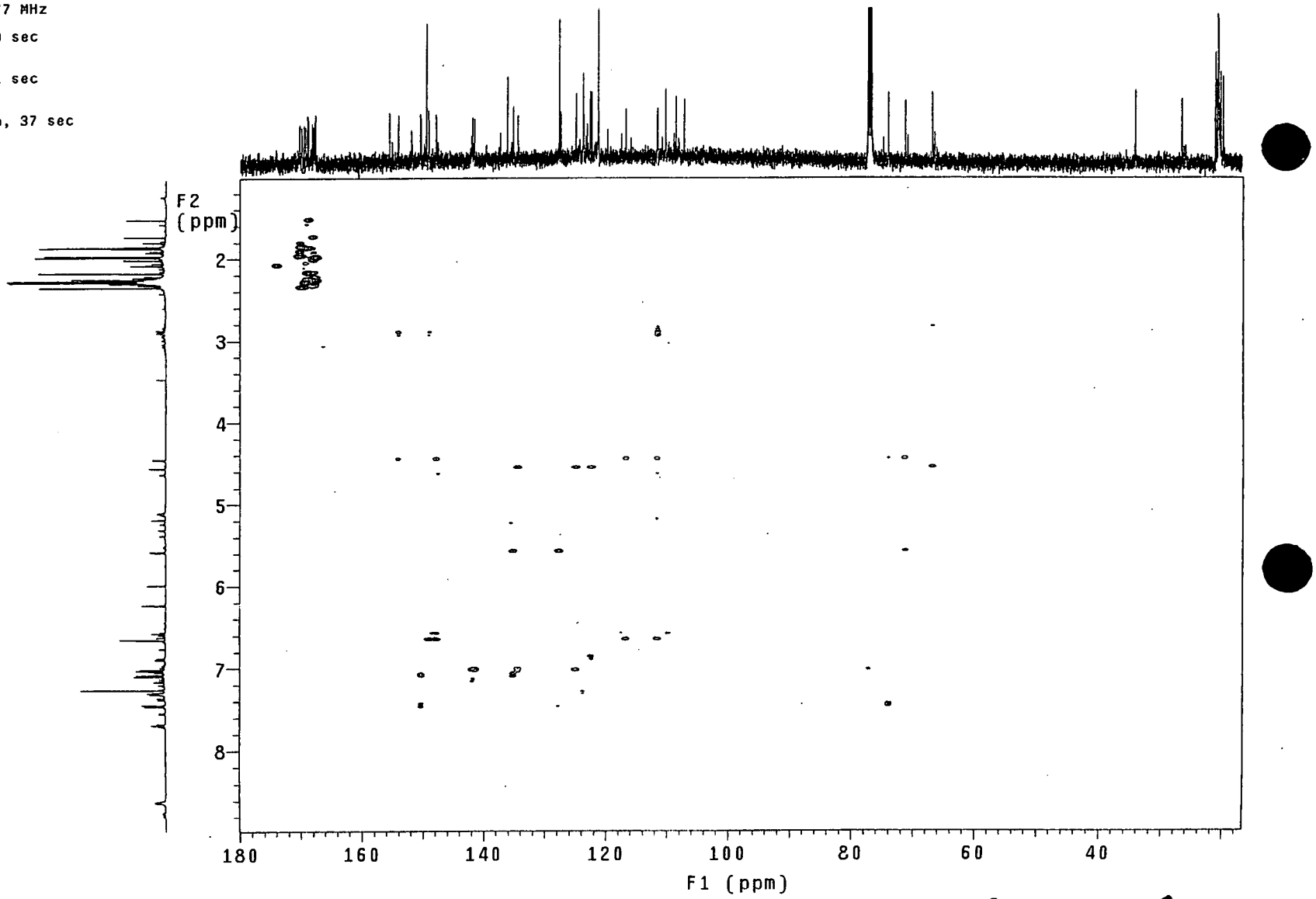


FIGURE 50

P88-27-40a

Pulse Sequence: CIGAR

Solvent: CDCl3
Temp. 25.0 C / 298.1 K
File: P88_27_40a_cigar
WORKSTATION "ganymede"

PULSE SEQUENCE: CIGAR
Relax. delay 1.000 sec
Acq. time 0.199 sec
Width 5144.4 Hz
2D Width 23529.4 Hz
192 repetitions
256 increments
OBSERVE H1, 499.7381577 MHz
DATA PROCESSING
Gauss apodization 0.100 sec
Sine bell 0.100 sec
F1 DATA PROCESSING
Gauss apodization 0.011 sec
Sine bell 0.007 sec
FT size 2048 x 4096
Total time 18 hr, 23 min, 37 sec

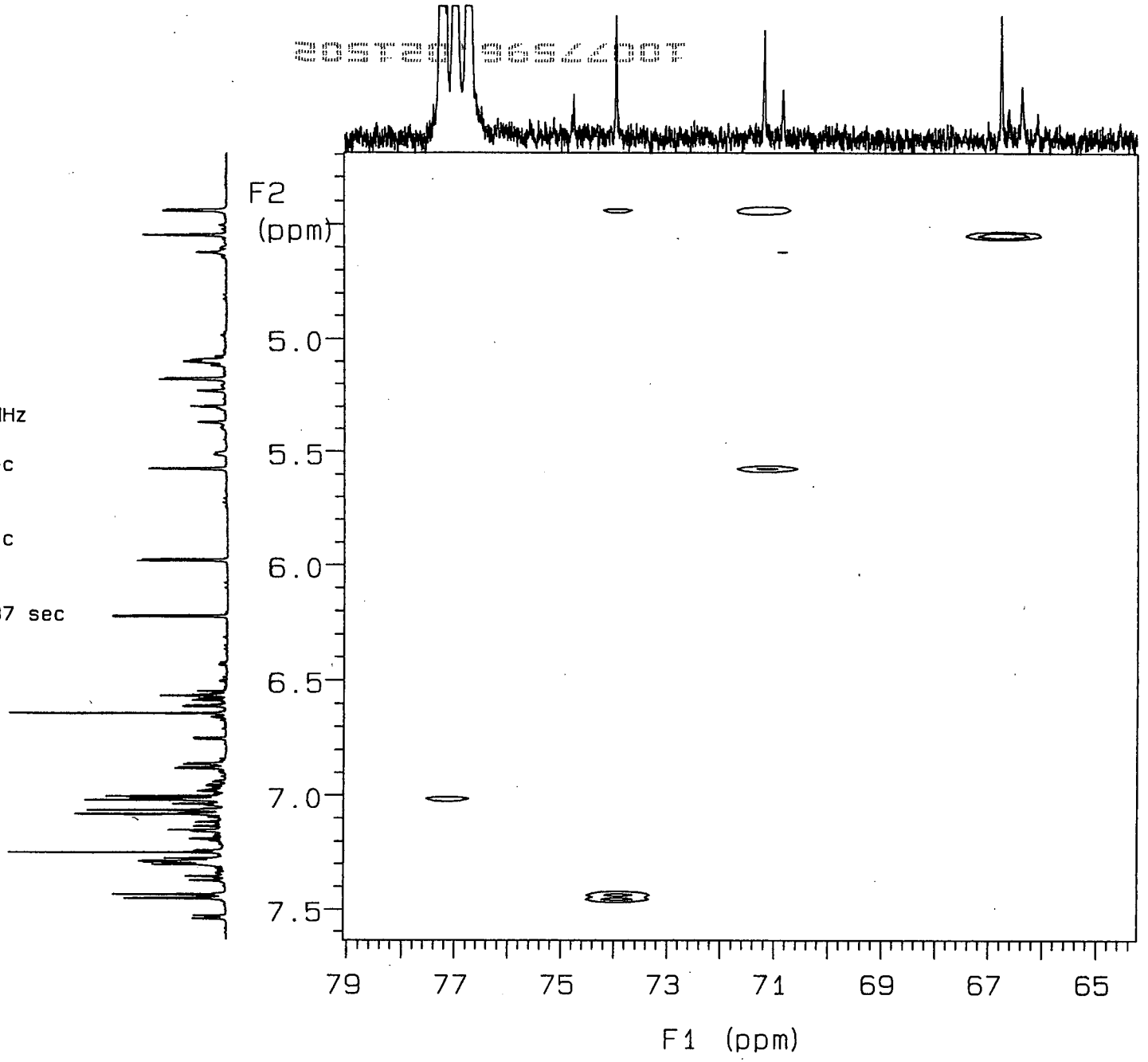


FIGURE 51

P88-27-40a

Pulse Sequence: CIGAR

Solvent: CDCl3
Temp. 25.0 C / 298.1 K
File: P88_27_40a_cigar
WORKSTATION "ganymede"

PULSE SEQUENCE: CIGAR
Relax. delay 1.000 sec
Acq. time 0.199 sec
Width 5144.4 Hz
2D Width 23529.4 Hz
192 repetitions
256 increments
OBSERVE H1, 499.7381577 MHz
DATA PROCESSING
Gauss apodization 0.100 sec
Sine bell 0.100 sec
F1 DATA PROCESSING
Gauss apodization 0.011 sec
Sine bell 0.007 sec
FT size 2048 x 4096
Total time 18 hr, 23 min, 37 sec

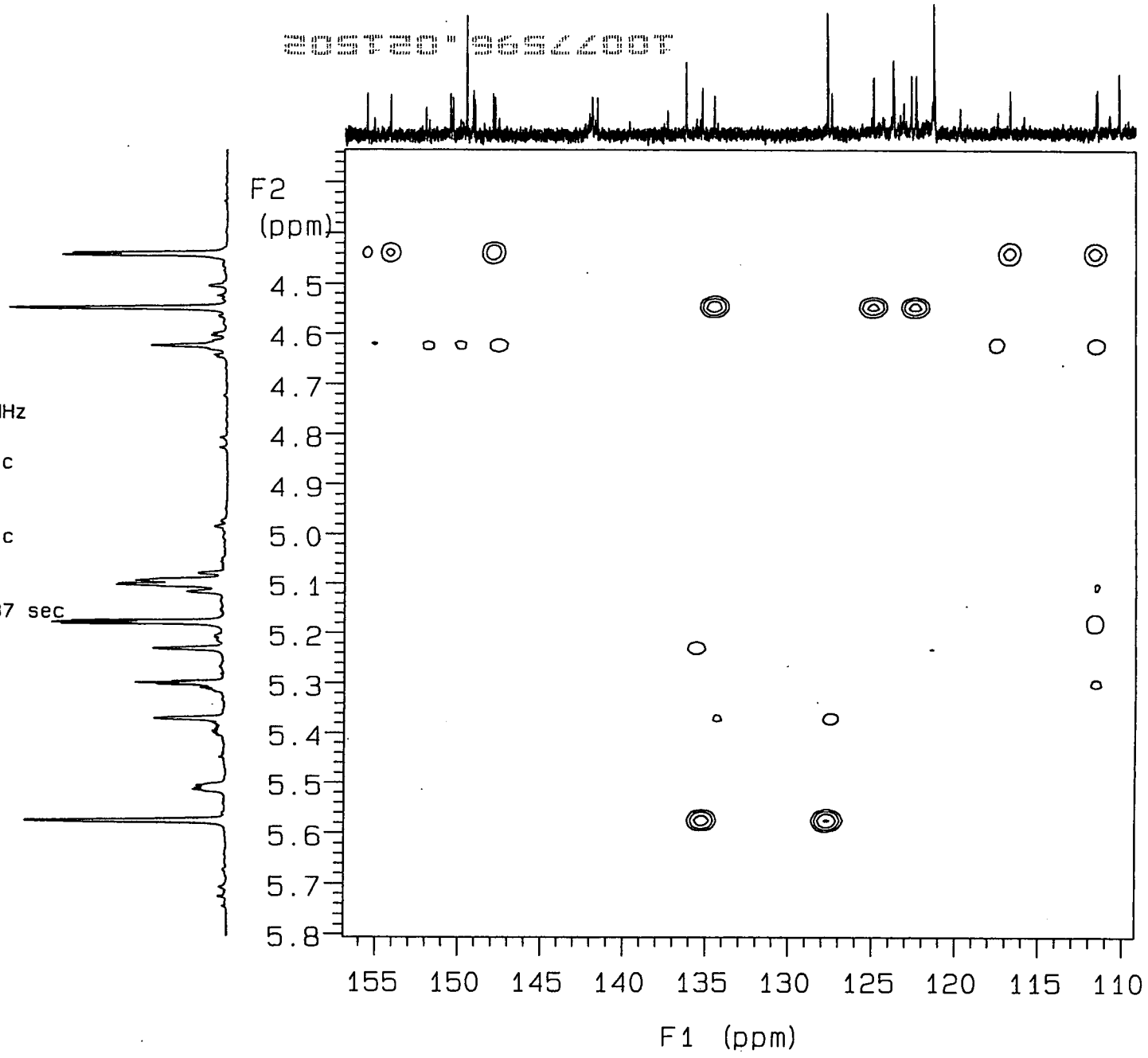


FIGURE 52

P88-27-40a

Pulse Sequence: CIGAR

Solvent: CDCl3
Temp. 25.0 C / 298.1 K
File: P88_27_40a_cigar
WORKSTATION "ganymede"

PULSE SEQUENCE: CIGAR
Relax. delay 1.000 sec
Acq. time 0.199 sec
Width 5144.4 Hz
2D Width 23529.4 Hz
192 repetitions
256 increments
OBSERVE H1, 499.7381577 MHz
DATA PROCESSING
Gauss apodization 0.100 sec
Sine bell 0.100 sec
F1 DATA PROCESSING
Gauss apodization 0.011 sec
Sine bell 0.007 sec
FT size 2048 x 4096
Total time 18 hr, 23 min, 37 sec

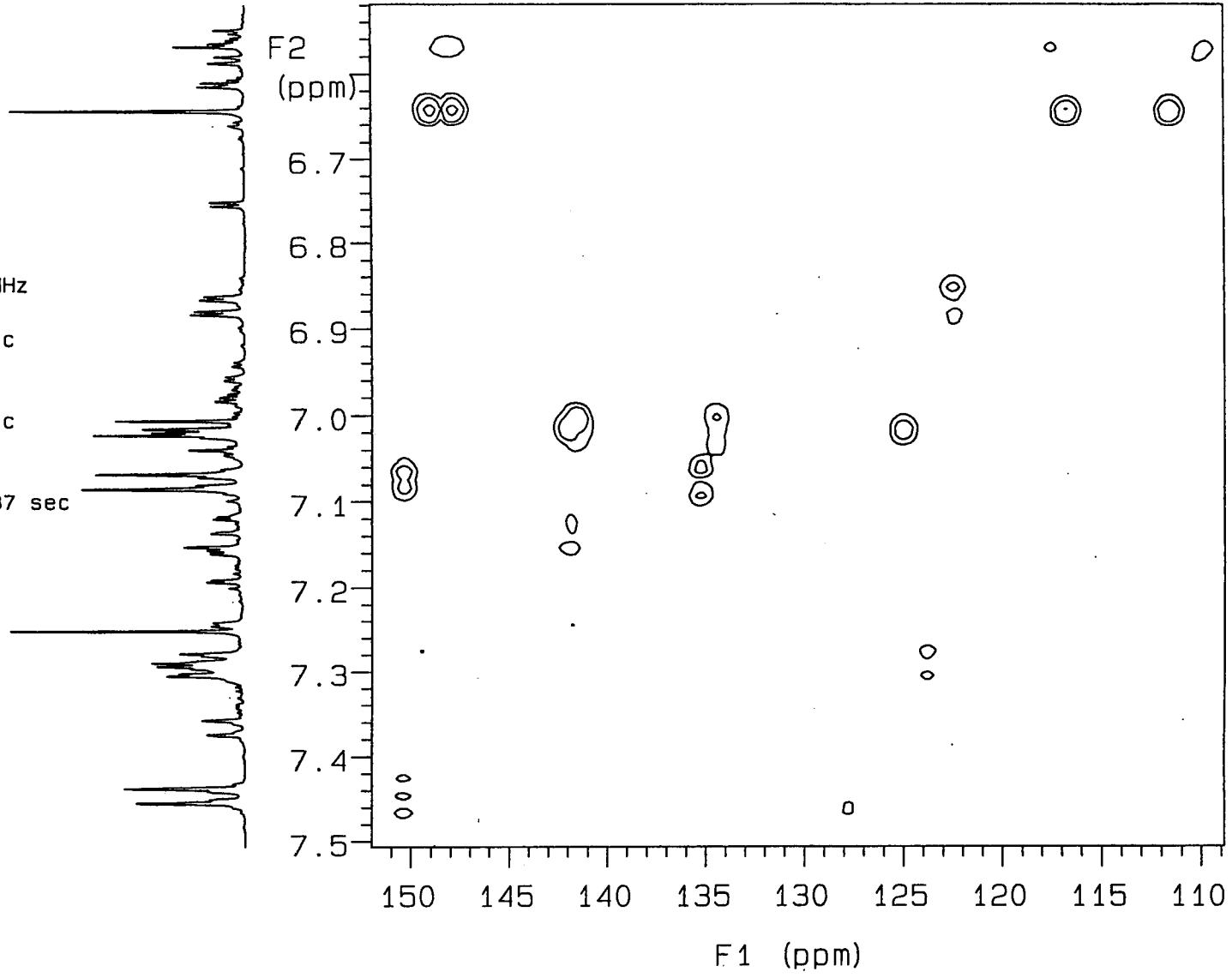


FIGURE 53

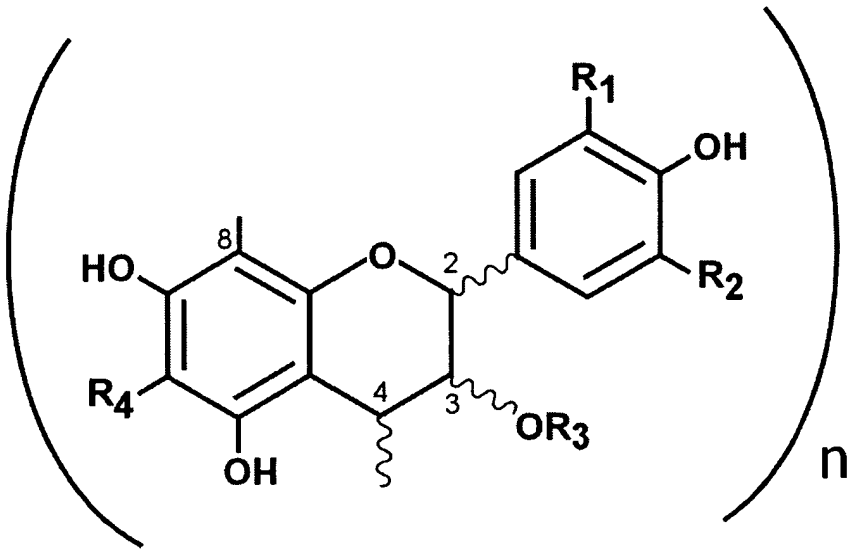


FIGURE 54

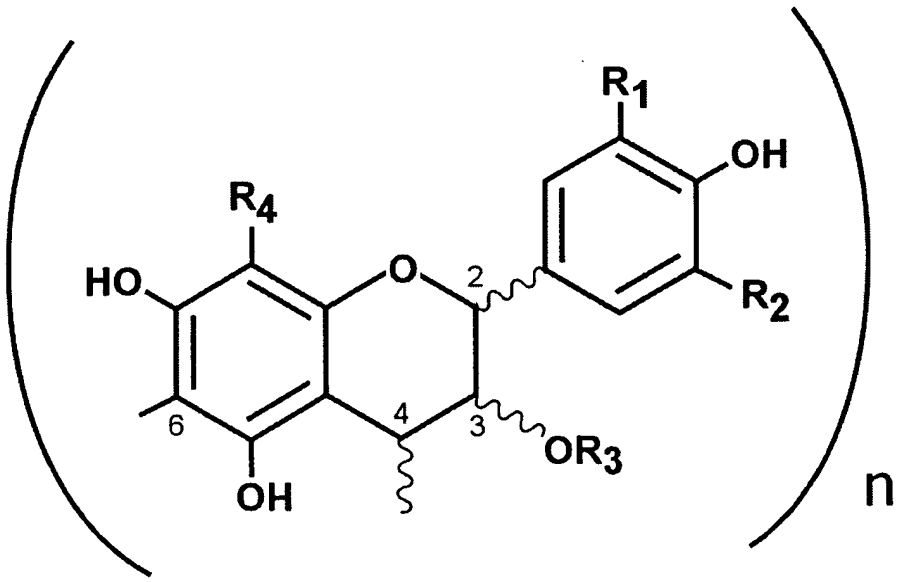


FIGURE 55

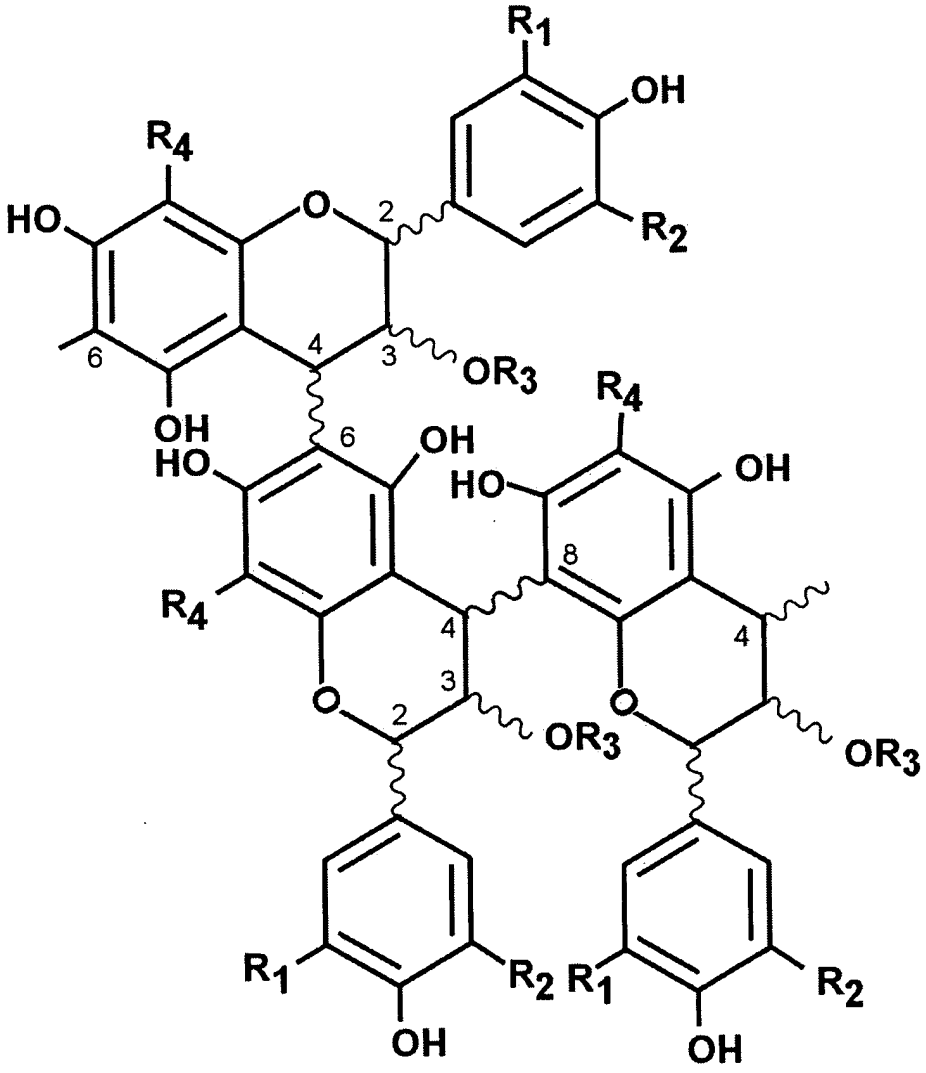

R1
OH
R4
HO
O
2
R2
6
4
3
OR3
R4
OH
HO
6
OH
HO
OH
8
R4
4
4
3
O
2
O
OR3
OR3
R1
R2
R1
R2
OH
OH

FIGURE 56

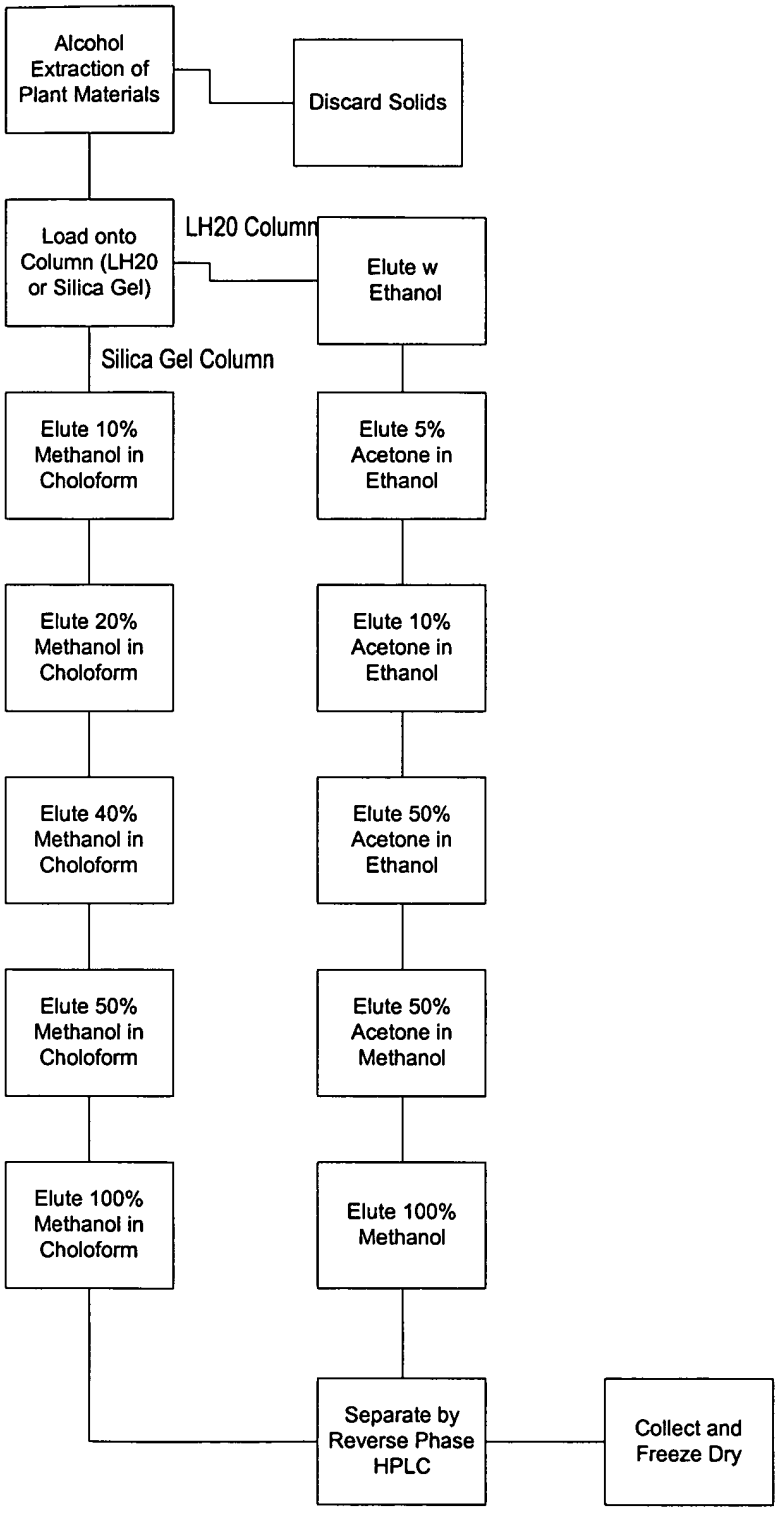

Alcohol Extraction of Plant Materials
Discard Solids
Load onto Column (LH20 or Silica Gel)
LH20 Column
Elute w Ethanol
Silica Gel Column
Elute 10% Methanol in Choloform
Elute 5% Acetone in Ethanol
Elute 20% Methanol in Choloform
Elute 10% Acetone in Ethanol
Elute 40% Methanol in Choloform
Elute 50% Acetone in Ethanol
Elute 50% Methanol in Choloform
Elute 50% Acetone in Methanol
Elute 100% Methanol in Choloform
Elute 100% Methanol
Separate by Reverse Phase HPLC
Collect and Freeze Dry

FIGURE 57